

**ENGINEERING CATALOGUE '88** 



Dear Fellow Electronics Enthusiasts

It seems like only vesterday that I wrote the letter for the 1987 catalogue and now it's 1988!

1987 was a great year for us. We achieved our goal of opening in Melbourne — not one store but two! We also purchased a block of industrial land and plan to build our head office and warehouse complex during 1988/89.

Once again we are very proud to present you our catalogue — the 5th edition and by far our best. It includes more products, is more accurate and gives more detail than any of our previous publications. The embrasis on quality Engineering Grade componentry and kits has never been higher. We are also proud to announce that our range of

Australian-assemble dixt is larger than ever. Apart from kits we have some great new products, many Australian made. Take the 12V DC-300/ AC SINIS WASTE Instruction to designed and made in Australia and is a worldbeaters!

Or this years cover is an illustration of the construction of the CSIRO Division of Bedindhoelers!

Or this years cover is an illustration of the construction of the CSIRO Division of Bedindhoelers.

On this years cover is an illustration of the construction of the CSIRO Division of Radiophysics Australia Telescope — a Bicentennial project. We all should be very proud of Australia's achievements in radio astronomy. (See below).

New Magazine

We are very enthus iastic about the arrival in November 1987 of 'Silicon Chip' magazine. As you will see in our kit section, we have supported
many 'Silicon Chip' projects with kits. Congrahilations to Lea Simpson, Gran Swain and the Silicon Chip test#

many 'Silicon Chip' projects with kits. Congratulations to Leo Simpson, Greg Swain and the Silicon Chip staff.

Mail Orders

Our mail order service has again proved to be very popular during the past year. We note that thousands of customers have saved money (apart from the low cost of our products!) by dialing our toll free order number. If you wish to place a more of the products! by dialing our toll free order number. If you wish to place and the products! by dialing our toll free order number. If you wish to place and the products! by dialing our toll free order number. If you wish to place and the products! by dialing our toll free order number. If you wish to place and the products of the product of the product

## anywhere in Australia you can reach us for the cost of a local call. If that number is busy or you want to make an inquiry our mail order hotline is 02 747 1888.

New stores
We have been given great encouragement by enthusiastic response to our Melbourne stores. Look out for more news in 1988!

Prices
It is pleasing to be able to say at last that the value of the Australian dollar appears to have stabilised. This is good news for all of us as the

price of goods will remain steady. Let's hope it stays that way in 1988!

I would like to personally thank you all for your support. Your recognition of quality products at reasonable prices motivates us to serve you better.

Remember, Jaycar will not be knowingly undersold on any item of the same quality.

Gary Johnston

## COVER PHOTOGRAPH

This photograph was taken late in 1987. It shows (on the front cover of the catalogue) the first fully completed 22 metre antenna handed over in May '87 with 4 others (now complete) on the rear cover. The Australia Telescope is a very ambitious Bicentennial Project and its a

great story.
Whilst use of optical telescopes began in 1609 when Galileo first pointed his telescope skyward, Radioastronomy (i.e. the observation of radiation at the longer wavelength of the radio region of the electromagnetic spectrum) did not really begin in an orderly scientific way until the mid 1940s. Interest in this area of scientific activity began in Australia almost immediately.

Australian scientists quickly established themselves as world leaders in this new field. Padiophysicists (as they became known) from the then called CSIR used surplus Radar equipment from WMI limitally. Early workers used little more than steerable Yagir spinets olsyward! But later antenna (Radiotelescope) designs improved tremendously in sensitivity and resolution, (Because a Radiotelescope works at a much lower frequency than licht, resolving power (e. the ability to see detail is (west) a problem).

much lower frequency than light, resolving power Le. the ability to see detail is (was); a problem).

Our lead was enhanced by conflictuoines from instruments like the Mills Cross Reductiescope near-marked enternation of the Construment of the Cross Reductiescope near-marked enternation and the 64M diameter anternation and the second of the Construment. Its most notable achievement has been to actually radio-map large portions or the southern sky. Apart from that it participated in the identification of the first quaser in 1963 and the discovery of complex organic molecules in space.

Apart from actual Radioastronomy, the world saw those first steps on the moon from the Apollo missions thru the transmission via the Parkes Telescope.

But the Parkes Telescope was never designed to last as long as it has. Modern Radioastronomers wanted to "see" radiosources at a much higher frequency than Parkes original design limit and with greater resolution (finer detail). Despite some very successful upgrades the writing was on the wall.

Whilst large single antenna Radiotelescopes can and have been made, they still could not provide the required detail.

A technique called 'Aperture Synthesis' was discovered nearly 40 years earlier. This and other techniques collectively called Earth Rotation Synthesis opened the door for design of Radiotelescopes that would achieve the required resolutions in the behalve allows a number of receiving antennas at some distance from one another to effectively work as one antenna. The effective aperture (diameter) of the antenna is the distance between the two antennas furtherst apart.

In order for the CSIRO Division of Radiophysics to continue first class scientific work it became apparent that a new Radiotelescope needed to be built. A number of proposals were made, but to shorten the story the proposal which came to be known as the Australia Telescope was accepted.

The CSIRO Division of Radiophysics was effectively proposing a telescope with a zoom ratio of 10000 to 1, could distinguish a 10c coin at 1100 km, could operate over the staggering bandwidth from 327MHz (.917 metre) to 115GHz (2.6mm) and had a resolving power 50 times better than a conventional opicial telescope.

This was how they intended to achieve the performance: To construct an array of 6 x 22m diameter receiving dishes, 5 of which to be mounted on 36 metre wide railway track 3 Km long at Culgoors (near Narrabn N-S.W.), a 6th dish 3 Km away, one 22 metre fixed antennast. Mopra (near Coonsbarabran N-S.W.) and finally to upgrade Parkes to form another element in the array. The 25m University of Samania Theorem (and the coasionally part of the long baseline as we led as the NASA Trom antenna at Tridbhillals and other elescopes as the Coasion Taw (and the Coasionally part of the long baseline as we led as the NASA Trom antenna at Tridbhillals and other elescopes as the Coasional tracks.

The AT is a good example of what can be made in Australia — it has 80% local content Construction of the AT a sit has become known has provided enormous spindfs for Australian Technology. The CSIRO had to design a special VLSI chip to the correlator is a special computer to process-the enormous amounts of data collected by individual antennas). This VLSI chip is a 24.5 micron 16MHz state of the art feeting.

the art device. Apart from that, technology spinoffs in the areas of antenna design, low noise amplifier design, servocontrol design, fibre optic transmission

of wide bandwidth, feedhorn design and software design have also occurred.

The Australia Telescope not only gives Parkes a new lease on life until well into the 21st Century. It gives us the most versatile and potentially the most powerful Radiotelescope in the world. This will enable us to conduct qualify research which will continue to enshrine our scientific.

tradition as leaders in the field.

A truly worthwhile Bicentennial gift to Australia.

If you want to receive the newsletter from the CSIRO giving further information on the AT project send \$5.00 to. AT Countdown Subscriptions CSIRO Visitors Centre Parkes Radio Telescope P.O. Box 276, PARKES 2870 With your full name and address (all back issues will be supplied).

## 1GHz Digital Frequency Meter

Ref: Silicon Chip November/December 1987

This superb 1GHz Digital Frequency Meter will outperform any other instrument in its price range. It uses the highest performance ICs, provides both frequency and period measurements, switchable gate times, an eight digit readout with switchable decimal oints and overflow indication. Kit is complete with laser cut slik screen front panel, addised punched rear panel and all parts.

Percentional Modes: Period, frequency to 1GHz, 100MHz, 10Mhz • Frequency
Range: 10Hz-1GHz (1.7GHz typ.) in frequency mode: 10Hz-2.5MHz (5MHz typ.) in Ranges (1641-1698) (1,7681-typ.) In Integratory mode; 1644-2.58814 (56818-typ.) in proof mode -dating Times; col.), col., 1.5 (1691-renge); 50-128, 142, 142 and 158 secs; (1691-typ.) Mass Researchison; 0.1162 (1691-typ.) or 1.52, 142 and 158 secs; (1691-typ.) Mass Researchison; 0.1162 (1691-typ.) or 1.52, 142 and 158 secs; (1691-typ.) Mass Researchison; 0.1162 (1691-typ.) Mass Researchison; or 1.62 (1691-

Requirements: 240V AC 50/60Hz Cat. KC-5013 \$299

## 50/500MHz Digital Frequency Counter

Ref: EA Dec 1981/Feb 1982

This is a high performance unit that is also easy to build! This design uses just 5 IC's, measures period and frequencies up to 500MHz (with prescaler), it features a bright 7 digit display and outperforms ready built units costing 2 - 3 times more We believe that the Jaycar version of this kit is by far the best. Not only do we supply 2 x GOLD plated BNC input connectors we supply a special pre-punched heavy plastic front panel that is screen printed in epoxy ink. The assembled unit looks a million dollars! Watch out for kits that only provide cheap front panels. The standard kit will work to 50MHz. SPECIFICATIONS

O . 10MHz. 0 . 50MHz & 10 - 500MHz (optional) • Switch selectable frequency • 0 - 10Mež; 0 - 50Mež 8 10 - 500Mež (o 100mež) - 5 witch selectable frequency operiod measurement - 10mº RHS 50 50Mež; 10mº RHS § 50mº RHS § 50m° RH

240V AC 7 watts Cat KA-1390

\$169.50

PRESCALER - a 500MHz prescaler kit (which fits straight on to the main circuit board) is available... \$46,50 Cat KA-1202







## **Function** Generator with digital readout

Ref: EA April 1982

This attractively housed (matches the KA-1390 DFM) unit produces sine triangle and square waves over a frequency range from below 20Hz to over 160kHz with low distortion and good envelope stability. It has an in-built uency counter for ease and accuracy of the frequency setting. SPECIFICATIONS

Frequency Range Output Level Output Impedance

ine Wave Distortion Square Wave Rise Time

Overshoot, etc Readout Accuracy Amplitude Stability er Consumption Cat KA-1428

From below 20Hz to 170kHz in 3 rang Continuously variable from 3mV to 2.5V P-P 600 ohms (nominal) Sine, Triangle, Square

Less than 0.7% at 1kHz, 1% at 10kHz and 2% at 100kHz 0.4uS (6V/uS at maximum output level)

Negligible overshoot, droop or ringing ± 2% + 1 digit Better than 0.1dB on all ranges 7 watts at 240V AC

\$129.50

## **Upgraded Digital** Capacitance Meter

Ref: EA August 1985

Every serious hobbyist should have one. This is the improved version of the very popular March 1980 design. Checks values from 1pF to 99.99uF over three ranges Now included is a nulling circuit which operates on the uF range as well as the ni and pF ranges and eliminates the "bobble" between 0 and 1 that occurred in the old model. Matches our other test equipment kits - Frequency Meter, Function Generator. Power Supplies, etc. Kit also incorporates a bright 4 digit LED display. Simply connect the capacitor to be tested to the input terminals and select the appropriate range. Will test Tantalums as well as electrolytics.

The Jaycar kit includes attractive punched and screened front panel, 3 specially selected capacitors for calibrating unit, box, PCB and all parts. Cat, KA-1595

\$85.00





MAIL ORDERS-INQUIRIES 02 747 1888

## High Impedance AC/DC Millivoltmeter



Ref: EA December 1987 This easy to build instrument will measure AC and DC signals d

milkoits, with negligible current loading.

This kit is inexpensive to build, has an input impedance of about 7M ohms and a minimum range of 10MV. This makes it an ideal instrument for testing signal paths and offset voltages in circuitry containing op-amose or transistors. Other features included are battery test and meter zero positions and a reverse polarity indicator for the DC ranges. The meter scaling and range switch have been calibrated in 10dB steps.

Kit is absolutely complete. box, meter, meterscale and all components supplied. Cat. KA-1695

\$46.50



## Low Distortion Audio Oscillator **Metered Version**

Ref: EA December 1986

This is the best ultra-low distortion oscillator that Electronics Australia has ever This is no loss on all all with several produced. It is comparable with the very best laboratory standard sine wave equipment but by building it yourself you get one for a fraction of their cost. As well as having very low distortion, it has square wave output and excellent envelope stability

Kit includes pre-punched and silk screened metal front panel, box, meter and all METERED VERSION \$165.00

Performance of Prototype Frequency Range: 10Hz to 100kHz in 4 ranges - Output Level: 3V RMS max -Attenuator: 0dB, -10dB, -20dB, -30dB, -40dB, -50dB plus fine adjust - Output Impedance: 600 ohms - Output Waveforms: Sine and Square - Sinewave Harmonic Distortion: 20Hz <0.0075%; 100Hz <0.0015%; 16Hz <0.0015%; 16Hz <0.0015%; <0.002%; 20kHz <0.005%; 100kHz <0.02% • Square Wave Rise and Fall Times:

Unmetered Version Cat. KA-1680 \$139

Cat. KA-1691



## TV Colour Bar **Pattern Generator**



generator, switchable for both servicing and closed-circuit or amateur TV. It provides high performance at a very reasonable cost. It will provide 8 different patterns and colour bars, red screen, white screen, black screen, cross-hatch, vertical lines, horizontal lines and dot pattern. Synchronisation and blanking are to IRCC (international Radio Consultative Committee) standards, Kit is supplied with laser cut and screened front and rear panel, box, thumbwheel switch, RF modulator and all components except plugpack. \$169.00 Jnit requires 12V AC @ 500mA.



## In-Circuit **Transistor**

Tester Ref: EA September 1983

Have you over uncoldered a suspend transistor only to find that it checks OK? Troubleshooting exercises are often hindered by this type of false alarm. You can avoid these hassles with the "In-Circuit Transistor, SCR and Diode

The kit does just that, test drives WITHOUT the need to unsolder them the circuit! VERY HANDY! The Jaycar kit includes a Jiffy box and Scotchcal panel showing truth table for

\$21.50



rice checking. Cat KA-1119



## Transistor. FET and Zener Tester

Ref: EA February 1988 This handy tester will check the ving: Bipolar transistors, junct FFTs Mostets Zener diodes rectifie diodes and detector diodes. Using some ingenuity you can check low power SCRs and PUTs. Testing procedures are clearly outlined in the instructions supplied with the kit.
Kit includes PCB, box, front panel. meter and meter scale and compo nents Requires 6 v AA hotteries

\$55.00







## Zener Diode Tester

This handy tester will enable you to actually read the zener voltage of any zener diodes up to 60 volts via your digital multimeter. Now you don't have to decipher those cryptic zener diode part numbers! This tester will also check

Supplied in a small Jiffy case with all required parts and instructions. /A nultimeter - not supplied - is also required to use this piece of equipment.)

\$16.95

## Simple Signal Tracer for Audio & RF Work

Ref: EA August 1985 This simple piece of test equipment enables you to troubleshoot both audio and RE circuits by detection signal paths. When the signal stops start looking for trouble! It is portable. battery operated and contains both RF probe and inbuilt speaker. The Jaycar kit includes box, probe and other components necessary to build this project. \$27.95



## Voltage and Continuity Tester

Ref: EA November 1987 This handy voltage and continuity checker belongs in every toolbox. It tests AC and DC voltages and also continuity in wires and cables. It will measure 6V, 12V, 24V, 48V, 110V, 240V and 415V, both &C and DC There is also a polarity indication, and in the case of AC, both polarity LEDs will light up. Whenever a voltage is measured there is also a "beep" tone. The continuity tester is selectable by a switch. The continuity of a wire is indicated by an audio visual signal; both a been and a glowing LED.
The kit is complete with box

Scotchcal panel, probes, PCB and all

Daris. Cat. KA-1694 \$29.95



### TURN YOUR SURPLUS STOCK INTO CASH!! Jaycar will purchase your surplus

stocks of components and oment. We are continually on the lookout for sources of prime quality

CALL GARY JOHNSTON OR BRUCE ROUTLEY NOW ON

(02) 747 2022

## Capacitance Adaptor for your DMM

Ref: Silicon Chip Nov '87
This clewer adaptor circuit plugs
directly into your digital multimeter.
Then simply plug the unknown
capactor into the test terminals and
read the value in picofarads (pF) or
microfarads (uF) directly from the
digital display. Ideal for checking

suspect or unmarked capacitors and to select critical values. It will measure values up to 2.2uF in two ranges 0 - 2200pF (0.0022uF) and 0 - 2.2 uF. Don't be worried by the 2.2uF upper limit - capacitors with values greater than 2.2uF are usually clearly marked and sektom require

Kit includes PCB, all components, box and Scotchcal front panel. Cat. KC-5010 \$27.95



# Low Ohms Tester for Ohm DMM

Ref: Silicon Chip Feb '88
This low ohms tester plugs straight into the terminals of your digital multimeter, and can accurately

multimeter, and can accurately measure resistance values from 1k ohm down to 0.01 ohm. There are many situations where accurate low resistance measurements are necessary. These include checking meter shunts, designing loudspeaker crossover networks and ampittier output stages, servicing power supplies and any circuitry where low value resistors are used.

Kit includes PCB, box, front panel, banana plugs and terminals and all components. 9V 216 type battery required.

\$29.95





The state of the s

## Low Cost Temperature Probe for

Multimeters

Ref: EA January 1988
This is an easy to build temperature probe which adapts a multimeter of electronic suffered in the a general.

electronic voltimeter into a general purpose thermometer. Great for measuring the temperature of heatsinks, transistors, if Johnny has a fever, etc.

fever, etc.

Prototype was tested from -20° to
120°C at 1% accuracy.

The best thing about this kit is its low
price. Complete with PCB all

price. Complete with PCB all components, box and Scotchcal panel Requires 9V battery. Aluminium tube not stoppiled.

Cat. KA-1896 \$19.95

88'

# off on temperature probe 10 mWk. Electronics Australia

## ETI Temperature Probe for Multimeters

Ref: ETI June 1983
This simple add-on project extends the function of your multimeter to the measurement of temperature. It is

function of your multimeter to the measurement of temperature. It is particularly suited to digital multimeters. It can be used to measure temperature over the range from -55 to +150°C or better. The Javoar kit includes the Jiffy case.

The Jaycar kit includes the Jiffy case and Scotcheal front panel. The AD590 is supplied but not the probe case which is in fact the plastic case of a BIC biro. Cat. KE-4033

\$32.95



## Kits for Model Railway Enthusists

Impressive model railway kits from EA - just check out what these kits do and then check out the cost of buying the ready built units - you'll be amazed!!

"RAILMASTER"
Pulse-Power Train

### Controller Ref: FA September 1984

This is a state-of-the-art train controller offering tremendous feature - Variable simulated inertia

Full short circuit protection including both audible and visual indications
 Power and track monitoring indicators

Power and track monitoring indicators
 Adequate power for double and triple heading locos
 Fixed 12V DC and 15V AC power for lighting and accessories

Priced 12V DC and 15V AC power for righting and accessories
 Optional walk-around throttle
 The Jaycar kit includes realistic Scotchcal front panel and special console case only



Optional Walk-around Controller

### Diesel Sound Simulator

Ref: EA November 1984

This project mounts inside a model train (i.e. goods wagon) and produces a sound similar to a dissel locomotive. The 'speed' varies according to the throttle action for added realism.

All listed parts provided.

22.50

## Steam Sound Simulator

Ref: EA December 1984

Build this realistic staam sound simulator for your model railway layout. It features an infra red optical switch to synchronise the "chuffs" to the wheel rotation. Like the KA-1561 disease sound simulator, it picks up power from the tracks.

All specified components supplied including 32 ohm headphone type transducer Cat. KA-1569.

\$22.50

## Model Railway Lighting Controller

This project basically detects a train by a photodiode and IR LED across a section of track. The circuit will then drive flashing lights for level crossings, school pedestrian crossings, etc. It will even drive up to 4 sets of red/amber/green traffic lights!

The Jaycar kit includes the PCB with power supply regulator, enough LEDs (around 10) for operation in its standard format and other board components. It is an ideal project for model railway enthusiasts.

Requires 7 - 9V AC adaptor)

\$21.95



CARLINGFORD 872 4444

4



## Playmaster/Jaycar 60/60 Blueprint **Amplifier**



### IT LOOKS SO GOOD YOUR FRIENDS WON'T BELIEVE YOU BUILT IT!

Ref: EA Magazine May, June, July 1986

We now have a 'Blueprinted' version of the Playmaster 60/60. We believe the 'Bluegrint' represents a significant improvement in the development of this project. Dual diagonally wound C-Core power transformer. Endorsed in writing (with each kith by EA. Slightly higher power rating than toroid power transformer (which is in the standard kit). For lower noise, metal film 1% 50ppm resistors are now supplied where 5% carbon types were originally specified. Power supply filter capacitors - doubled That's right, the Blue-print has 4 x 4700uF/63V capacitors instead of the 4 x 2200uF types in the standard version. This significantly improves power supply performance. Special extruded heatsink. The heatsink section is machined from a heavy section extruded aluminium section, it is then black anodised. The standard heatsink is folded sheetmetal not anodised. Special high quality pre-tinned PCB • Special front panel treatment - graphics emphasise Blueprint treatment.

### 150 WATTS PLUS MUSIC POWER!

"For short term power capability (Music Power), as measured by the Institute of High Fidelity specification IHF-A-207 the amplifier can deliver 105 watts into an 8 ohm load for a single channel, and no less than 153 watte into a 4 ohm load under the

### FEATURES OF THE 60/60

\* 60 watts per channel with both channels driven into 8 ohm loads \* Very low noise on phono and line level inputs - better than CD performance \* Very low harmonic and intermodulation distortion \* Excellent headroom \* Tape monitor loop \* Tone controls with centre detent and defeat switch \* Mono/stereo switch \* Easy-to-build construction

### PERFECT CD PLAYER COMPANION

Hum and noise levels for line level input is actually better than any currently available CD player at 103dB plus. You can't hear a thing with your ear right on the speaker one and the volume up full! The volume control is calibrated "CD Clip" at a level corresponding to 2V signal level or full arms output power with CD player input BEGINNER CONSTRUCTORS CAN BUILD THIS AMP

If you can use simple hand tools and a soldering iron you can build this project. The designers at EA believe (as we do) that many 1,000's of audio enthusiasts, with little or no electronic constructor experience would want to build this amp - so it's designed on one large printed circuit board. Virtually everything is board mounted i.e. even input sockets and switches! There is no shielded wire, in fact there is only a handful of soldered connections external to the PCB. So by simply following the step-by-step instructions and inserting components with the pre-drilled PCB and soldering,

the amp is thus constructed.

YOU WILL BE PROUD OF THE RESULT AND IT WILL LAST A LIFETIME PERFORMANCE SPECIFICATION

Power Output (One channel) 4 ohms 88W, 8 ohms 74W Power Output (Both channels) 4 ohms 72W, 8 ohms 62W Harmonic Distortion Less than 0.01% for all powers to 60W into 8 chm loads; Less than 0.015% for all powers to 70W into 4 ohm loads Intermodulation Distortion Less than 0.01% for all powers to 60W into 8 ohm loads; Less than 0.012% for all powers to 80W into 8 ohm loads Frequency Response Phono inputs - RIAA/IEC equalisation within ±0.5dB from; 40Hz to 20kHz
- Line level inputs -0.5dB at 20Hz and -1dB at 20kHz lnput Sensitivity Phone inputs

at 1kHz - 4.3mV (overload capacity at 1kHz - 140mV - line level inputs - 270r Hum and Noise Phono (with respect to 10mV at 1kHz) -89dB unweighted; with typical moving magnet cartridge, High level inputs (with respect to 270mV) -103 unweighted with 20Hz to 20kHz bandwidth Tone controls Bass ±12dB at 50Hz; treble ±12dB at 10kHz Damping factor At 1kHz and 30Hz - greater than 80 Stability Unconditional

"This new amplifier offers a standard of performance far ahead of anything we have previously published and ahead of most commercial integrated stereo

"It is half to one third the cost of an imported amplifier with equivalent power output and performance"

Says Leo Simpson former Managing Editor of Electronics Australia Magazine

BLUFPRINT Cat. KA-1652 \$369.00 STANDARD VERSION CM VA 1050 \$329.00

## AM/FM Stereo Synthesised Tuner



### Ref: EA December 1985 - February 1986

This tuner will outperform any commercially available tuner REGARDLESS OF PRICE. We could not say that unless it was true As well as getting an FM stereo section which is at least as good as any synthesised

tuner ever built, it is the only unit featuring a genuine wideband low distortion AM stereo (CQUAM) tuner! Not only do you get that you get digital frequency readout, 12 station memory, automatic station seek and an optional infra red remote control. JAPAN EAT YOUR HEART OUT!!

This design is one every Australian can be proud of. It has no peer anywhere else in the world - and you can have one. The metalwork is an exact replica of the prototype as are all of the very difficult-to-obtain components We sincerely hope you will recognise the significance of an Australian "home grow

product which is a world beater SPECIFICATIONS 522 to 1611kHz 3/1R @ 5 5kHz

AM TUNER Tuning Range Freq. Response

Harmonic Distortion Mono Audio Output

0.4% @ 30% modulation Storen < 1% @ 30% modulation 450mV RMS into 4.7 ohm load @ 100% modulation Stereo Separation AGC Range Typically 30dB 40dB for a 6dB change in audio output S/N Retin

70dB with espect to full output for signal levels of 9 and 10 on bar graph display, better than 60dB with respect to full output for signal levels greater than 6 Usable Sensitivity 350uV @ -6dB audio level

FM TUNER Tuning Range Freq. Respons 87.9 to 107.9MHz -1dB @ 20Hz, -0.5dB @ 15kHz Harmonic Distortion

Audio output Stereo Separation Subcarrier Product Rejection 19kHz Rejection Cat. KA-1635

down tuning buttons. Cat. KA-1636

Mono 0.15% (100Hz) 0.15% (1kHz) 0.2% (6kHz) ereo 0.4% (100Hz) 0.4% (1kHz) 0.4% (6kHz) 450mV RMS into 4.7k ohm load @ 100% mod 34dB (50Hz) 34dB (1kHz) 36dB (10kHz)

\$599.00

.0-0

Remote Control Ref: EA April 1986 \$99.50

For that final touch of luxury on ye Playmaster storen AM/FM tuner you need the infra red remote control. Wit 010-0 this you can sit back and select any of the 12 programmed stations at will or tune (.0.0 to any FM or AM station with the up and



## 5000 Power Amp "Black Monolith" Re-born with Topology

Modules Ref: ETI Jan-March '81 and AEM April '87

Jaycar proudly re-introduce the fantastic 5000 series power amplifier with the new
"state of the art" Topology Power Modules.

What IS the difference?

Whilst we are sceptical, some people feel that Mosfet sound is 'harsh'. Good engineering back in 1979/80 produced a fine design in the 5000 series amps. This engineering back in 1978/80 produced a fine design in the 5000 series arms. This design is still valid but, in deference to the (many) popie who were critical of Mostet sound he reassesed the whole Mostet arm design philosophy. He rodesigned the arm, but a vast around of engineering time was also spent producing the backs also spent producing the backs also spent producing the backs also Mostet with more facilities. The design uses the same Hatani SSK1942-6 the back used to the spent producing the backs are spent producing the backs. cascade differential pair which employs both bipolar transistors and a dual J-FET This overall circuit topology was selected only after a great deal of experimentation and was found to give the best subjective performance of the various topologies tried during the development

"Black Monolith" is the special name that we apply to the special treatment that we give to the full 5000 Seriee Power Mosfet Amplifier. The performance of this amplifier is astonishing (see specs). In keeping with the "No Compromise" performance, Jaycar has set out to produce a kit which has no peer. The Jaycar Black Monoith is WITHOUT DOUBT the best 5000 amplifier kit on the market today AT ANY PRICE. There have been imitations but none have the features of this kit.

Laboratory Measured Performance Power Output Around 100W RMS into 8 ohms (both channels driven) Frequency Response 8Hz to 20kHz, +0 -0.4dB; 2.8Hz to 65kHz, +0 -3dB Note: these figures are determined soley by passive filters Input Sensitivity 1V RMS for 100W output Hum 100dB below full output (flat) Noise -116dB below full output (flat 20kHz bandwidth) 2nd Harmonic Distortion <0.001% at 1kHz (0.0007% on prototypes) at 100W output using a ±56V supply rated at 4A continuous <0.003% at 10kHz and 100W 3rd harmonic Distortion <0.0003% for all frequencies less than 10kHz and all powers below dipping Total Harmonic Distortion Determined by 2nd harmonic distortion (see above) Intermodular Distortion <0.0003% at 100W (50Hz and 7kHz mixed 4:1) Stability unoc

\$499.00

## "Ultra Fidelity" Preamplifier

Ref: AFM October - December 1985 The definitive Preamplifier by David Tilbrook

"The input noise figures subsequently obtained are significantly better than the best op-amp designs and exceed the specifications of the best commercial amplifiers."



Innuits include MM or MC cartridge. CD. two tuners - AM and FM, auxiliary - (Hi Fi VCR. etcl. The kit is housed in a deluxe metal cabinet featuring heavy gauge brush finished front panel with matching knobs

Power supply requirements. Unit needs 30-35 volts i.e. +30V/0/-30V. If used with the 5000 power amp, the secondary power outputs in the 5000 are wired in series and will comfortably supply the preamp. If used on its own a toroidal transformer 30(0/30 is recommended, We have available the actual one used in the 6000 amp Cat MT-2191 \$49.95 KM-2020

\$359.00

### GET THE UPGRADED MODULE PERFORMANCE FOR THE SAME PRICE AS THE OLD 5000 AMP

ALREADY HAVE A 5000 AMP?

UPGRADE IT with the AEM 6005 100 watt 'Ultra Fidelity' topology Mosfet Amp

Ref: Australian Electronics Monthly April 1987 David Tillbrook, the original designer of the 5000 amp (Jaycar "Black Monolith" 5000

armo kit sales 3000+) has designed a retrofit module which enables you to upgrade your old 5000 amp to the latest design philosophy 'Ultra Fidelity The Jaycar kit includes the new PCB all board parts, including fresh hea

new jig-predrilled heatsink, etc. Note that the Hitachi Mosfets 25K134/2SJ49 (2 of each) are not supplied as you will have these when you dismantle the old 5000 (477) rds. These devices are available separately as new parts 2SK134 Cat. ZT-2454 \$9.95 and 2SJ49 Cat. ZT-2449 \$9.95. THE DIFFERENCE IN PERFORMANCE WILL STAGGER YOU

Cat. KM-3056 (Supplied without Mosfets)

\$79.50 per channel

### BETTER PERFORMANCE THAN EVER





## **AFM6000** Series Power Amp Modules

Ref: AEM June - July 1986

The amplifier modules for the unbelievable 6000 power amplifier are now avail. separately. What more can we say than to list the specs. Supplied with PCB, all its including Mosfets and heatsink bracket. SPECIFICATIONS:

Supply Voltage: 50-0-50 to 75-0-75 volts • Power Consumption: <300mA at idle - Output Power 50-0-50 Supply: >100W into 8 ohms; >150W into 4 ohms - Output Power 75-0-75 Supply: >240W into 8 ohms; >360W into 4 ohms -Damping Factor: >300 (100Hz); >300 (1kHz); >100 (10kHz) all 8 ohm -Frequency Response: (determined by passive input filters only) - Optional Input Capacitor (Fitted): +0/-0.1dB <20Hz - >25kHz; +0/-0.5dB <10Hz - >18kHz; +0 3dB <4Hz ->130kHz: (Not Fitted): +0/-0.1dB dc to >25kHz; +0/-0.5dB dc to >48kHz; +0/-3dB dc to >130kHz • Total Harmonic Distortion 8 Ohm Load: 100Hz <0.005% @ 1W; <0.005% @ 10W; <0.005% @ 100W; <0.005% @ 200W for all frequencies from 100Hz through 10kHz • Signal to Noise Ratio re Full Power Output with a 200 ohm Source Impedance Connected: 400Hz - 20kHz width = >118dB A-weighted; 20Hz - 20kHz noise bandwidth = >105dB A-weighted - Total Equivalent Input Noise: 20Hz - 20kHz noise bandwidth <5.3uV A-weighted i.e. <103dBm A-weighted • Slew Rate (input filter rem >60V/uses

Cat, KM-3044 \$119.00





## 5000 Series 1/3 Octave (28 Band) Graphic Equaliser



This kit enables you to control 28 narrow hands of frequencies between 31 5Mz and 16kHz By being able to do this you will be able to very effectively compensate for acoustic deficiencies in any indoor environment. The third (i.e. 3 controls per octave) equaliser has been chosen for the 5000 system as most professional equalisation is done by third octave units, it gives total control over listening environment.

The Javor kit includes fully prepunched and plated chassis, prepunched heavy gauge front panel, anodised and silk screened to match the other 5000 Series components. It is original to the ETI design (Jaycar supplied the prototypes) but includes refinements such as quality IC sockets. UNBRAKO front panel fixing screws. and matching brushed finish black anodised level control Each unit is mono, two units will be required for stores operation

SPECIFICATIONS Signal to Nois Fren Resnonse Distortion

-102dB with respect to 1V 19Hz - 105kHz to -1dB 14dB (28dB total) 100Hz (0.007%) 1kHz (0.007%) 10kHz (0.008%) (essentially irrespective of boost or cut

Current Consumption Approx 100mA @ ±15V (requires 30V AC CT\* \*This power is available from the rear of the 5000 power amp

Cat. KE-4204 \$219.00



## 1/3 Octave Equaliser 2801

## FULL "ROAD" QUALITY

Jaycar is renowned for their famous 2801 third Octave Equalise Many, many hundreds of these units are giving reliable service in all parts of Australia and overseas. People recognise the value of this unit when they can get one for less than half the price of the cheapest ready built unit - with no deterioral performancell

We are proud to say that our new design is based on the Series 5000 third octave unit. The specs on this updated 2801 are unknown on units under \$1,000ll
The 2801 Mkill comes complete with fused power supply for 240V AC operation It is also fitted with standard Cannon male/female chassis connectors for ease of professional use. It is output short circuit proof and will drive very long unbalanced ines without degradatio

Naturally it comes in a 19" rugged, road quality rack cabinet. The 2801 MkIII looks almost the same as the third octave 5000 unit except that it has brand new front panel livery \$239.00

Cat. KJ-6531



## **2010 MkIIA** Stereo Equaliser (1 Octave)

### THE FAMOUS JAYCAR 2010

If you can't afford to pay for 2 third 5000 octave equalisers then the 2010 might be for you. The 2010 is an octave (i.e. one control per octave) equaliser. (Octave centre frequencies, 31, 62, 125, 250, 500, 1k, 2k, 4k, 8k & 16kHz). This still gives you mendous room equalisation

The 2010 also features separate level controls for right and left channels, and a multifunction pushbutton mode switch. You can, for example, equalise both recording and playback when dubbing from disc to tape or tape to tape as well as equalise bypass for A-B comparisons. Each control gives you a ±1208 as well as equalised bypass for A-B comparisons. Each control gives you a ±1208 of adjustment and otherwise has similar performance levels to the 5000 unit of the same of the

system. Looks good on its own. Cat. KJ-6535

\$169.00



## **Parametric** Equaliser

Ref: ETI July 1986

This module can be used on its own or in ganged to equalise a whole system. Parametric equalisers are different to graphic equalisers. "Parametrics" can be made to tune around a centre frequency whereas "graphics" have a fixed centre frequency. This tuning effect generally means that the number of equalisers in a signal line can be reduced (reducing distortion) and they are more versatile. The Jaycar kit is supplied with all board components including the potentio meters, knobs switch and TL071 IC.

BRIEF SPECIFICATIONS Range of Centre Frequencies Range of O

Boost Cat KE-4724 20Hz to 19kHz 1 to 10 -23dB 15dB/octave

\$23.50



## One Octave Equaliser Module



Ref: AEM December 1987

This kit is a ten band graphic equaliser that delivers top of price, Ideal for many of our amplifier modules as well as PA and sound reinforcement applications. The centre frequencies have been set to industry standards: 32Hz, 64 125, 250, 500, 1kHz, 2, 4, 8 and 16kHz. Kit includes two PCB's, one for electro and one for the sliders. Power requirements +15V, -15V. Short form kit, no hox or rdware, 10 slider pots included, SPECIFICATIONS

 Boost & Cut 12dB • Frequency Response 10Hz to 100kHz +0/-3dB (Controls) e) • THD 0.008%, 20Hz-10kHz (with respect to 1V i/p signal) • S/N Ratio 105dB A-weighted (with respect to 1V i/p signal) • Voltage Gain Approx 5, i.e. 14dB Cat KM-3064

\$59.95

## 8 Channel Audio Mixer

## Ref: EA April/May 1983

The Jaycer 8002 mixer was originally conceived to be the successor to the very popular ETI 414 Master Mixer. The 414 was basically configured as a "tage" mixer and suffered from a number of severe sechnical limitations - notably poor signal-to-noted plane. Endown selvances in sudoit CS have occurred union the 144 was designed, Jaycer engineer than the taken advantage of repurse. Character streams in according to leave occurred since the 4-th acceptance argument investigation and the mixer coupled with the performance capabilities of these ICs. Whilst the 8002 is the ideal 8 channel compact stage mixer, other applications. have been kept in mind. The 8002 front panel measures 19" wide x 14" high (8 rack units). This enables the 8002 to be mounted into PA equipment racks if necessary. Strictly speaking, the chassis is not needed in this configuration although the chassis is

REDUCTION TO A STATE OF THE STA any orne on as on use or space continues, many weathern countries and the state of input selector selection is provided at the top of the mixer panel. Another attenuator is provided at this point to prevent overload of the input circuity should the incoming signal prove to be higher than normal properties. The input circuity should the incoming signal prove to be higher than normal reflections. The input circuity should be incoming signal prove to be higher than normal reflections of the levels. Each input channel has 3 band equalisation capability with a massive 12th boost or cut. A pan control enables each input

channel to be positioned left thru right across a stereo image. Inputs our of stereo position on a stage can be positioned in the mixer. Finally a quality 60mm slider fade control is provided. We felt that in keeping with the professional nature

of the instrument that the extra resolution that the larger control offers is warranted. The left and right monitor channels have VU metering. Also provided is a 5 band graphic equaliser (±9dB), master foldback send is also provided.



RACK KIT This is the basic mixer. This kit gives you virtually all the electronics, Provided - front panel, VU meters, 11 PCB's, all potentiometers (rotary and slide), knobs, components for PCB's, hook-up wire, etc.

All Cannon XC connectors are included as well. It is ideal for rack mount and all that is necessary is a ±15V 1A power supply. \$595.00 Cat. KJ-6504

### DESK CONSOLE This kit consists of console

chassis, power supply including fuses, power lead, etc. and wooden end pieces. It enables you to mount the rack kit for conventional desk use. Cat. KJ-6505

\$119.00 HURSTVILLE 570 7000

## **Jaycar** 8002

## Technical

S/N microphone input -75dB with ref to +4dBM • S/N line input -90dB with ref to +4dBM . Line out level +4dRM (OVL) Distortion 0.005% - Power requirement 240V AC 50Hz 25 watts

## Input Module

nis unit consists of all parts necessary to construct one input. (Eight of these are in the KJ-6504). Supplied are all rotary pots and knobs, the 60mm slider and the 3 pole toggle switch as well as the PCB and PCB components. Cat. K.L6503 \$55.00

## Sum Amp. 5 Band Eq/Driver Module

Two of these are used in the This unit has a sum amn which accepts (and adds) the levels from the input modules, provides 5 hand equalisation as well as driving balanced and unbalance lines, VU metering is also provided. All controls, knobs, PCB and parts provided. Cat. K.I-6506 \$55.00

## Foldback/ **Effects** Sends Module

however, more can be easily used in a custom configuration. This unit enables you to take buffered foldback from the mixer and also allows you to mix the effects (such as a digital delay line, reverb, etc) back into the line. Once again all parts supplied. Cat. KJ-6507 \$37.50

One of these is used in the 8002.

## 8002 Power Supply Module

This provides a stable, regulater low noise ±15V @ 1A for the mixer Will power up to 8 input modules Cat. KJ-6509 \$39.50

## 50 and 100W **Amp Modules** with Polyswitch Speaker Protection

Ref: Silicon Chip December 1987 These high power amplifier modules give very low distortion and noise. They also feature foolproof protection against short-circuits and loudspea damage. Silicon Chip have looked hard at past amplifier designs and have come up with the definitive solution for those who need rugged reliable sound without breaking the bank. A particular feature of these amps are their low distortion, 0.05% for the 50 watt, 0.1% for the 100W version for the entire frequency range 20Hz to 20kHz at all power levels up to maximus Hi tech speaker protection devices are used in

these amps. Fuses and relays are not the answer its polyswitches. These are positive temperature coefficient thermistors with very low resistance When the current through a polyswitch goes high it immediately switches to a high resistan stays until the fault condition is removed. Its like a fuse which can repair itself. As far as we know, this is the first time that PTC thermistors have been prated into an amplifier design to give

comprehensive protection. PERFORMANCE OF PROTOTYPES · Output Power: 50W into 8 ohms (50W ver) 100W into 4 ohms (100W ver) • Frequency Response (at 1W): 20Hz-100kHz ±1dB (50W ver) 20Hz-50kHz ±1dB (100W ver) • Harmonic Distortion (20Hz 20kHz) 0.05% (50W ver) 0.1% (100W ver) • S/N Ratio (both) 100dB • Protection 2A fuses + RDE115 polyswitch (50W ver) and 3A fuses plus RDE245A polyswitch (100W ver) - Damping Factor without polyswitch 50 (50W ver) and with polyswitch 30 (50W ver) for 100W version factors are both 100

· Stability (both) unconditional As polyswitches are optional we have not included them in the kit price. Kits include PCB, all components (less polyswitches) and heatsink

50 WATT Cet KC-5019

\$32.95 RDE115 thermistor to suit Cat. RN-3415

\$8.95 each 100 WATT Cat. KC-5019

\$38.95 RDE245A thermistor to suit \$10.95 each







## ETI 480 Series **Amplifier Modules**

Ref: ETI December 1976 & ETI's 30 Audio Projects

### ETI 480/100

A complete audio amplifier on a single board. Just add a power supply and you have a 100 watt Hi Fi musical instrument or PA amplifier! Use it with the KE-4014 Mixer/Preamp for instrument or PA. Kit contains metal bracket, all PCB items and instructions. Legendary performance at a modest Cat. KF-4052

## \$34.50

ETI 480/50

Same circuit as the 480/100 except less output transistors, half the power and a little cheaper. Great if you don't need 100 watts. All parts supplied. Cat KE-4050

\$27.50



## **Universal Mosfet Amplifier** Modules AEM 6500 60/120 Watts

Ref: AEM July 1985

Designed by MOSFET Guru David Tillbrook th easy to construct modules give you either a power amplifier with 60 watts rms or 120 watts rms power depending on the number of final transistors used. They are easy to build and inexpensive They are ideal for PA, Hi Fi or anything really They are especially suited as individual speaker drivers in active crossover systems. The Jaycar kit consists of the board and relevant

parts. heatsink bracket (drilled) and instructions. Cat. KM-3010

\$59.50 120 WATT Cat. KM-3012 \$79.50

SPECIFICATIONS Depends on nowe supply and con iguration, max

8 ohm load Frequency Response Flat within ±0.4dB from 8Hz to 20kHz Input Sensitivity 1.2V rms for 100W out . Noise -100dB Intermodulation Distortion 0.003% at 100W • Stability



## ETI 499 150 Watt Mosfet Amp Module

Ref: ETI March 1982

At last, a high performance amplifier with the stability and reliability of MOSFETs. Genuine 150 watts rms with power supply components on board. You need only connect a power transformer (4361 type Cat. MM-2015) and

The Jaycar kit magnificent lig EXTRUDED heat sink bracket fo greater thermal

emiciency Cat. KE-4220 \$109.50

## 300 Watt **Playmaster** Amplifier

Ref: FA June 1980

This rugged design produces 200 watts rms Into 8 ohms and 300 watts rms into 4 ohms, All parts fit on a single PCB. It also features comprehensive protection circuitry, and will even with stand short circuits for short duration without adverse effect. Unlike other high powered amps it is unconditionally stable. It will not therefore break into supersonic oscillations, overheat and

SPECIFICATIONS

 Power Output 4 ohm 300 watts rms 8 ohm 200 watts rms • Freq. Response 20Hz - 20kHz -1dB + Harmonic Distortion 0.1% 4 ohm 150 watt 0.02% 8 ohm 100 watt • Input Sensitivity 1.5V @ 47k ohm • Hum & Noise 95dB with respect 100W • Damping Factor > 100 1kHz & 30Hz • Slewing Rate 70V/usec

Kit includes PCB, heatsink and all components Cat. KA-1115

\$119.50



### 300W Amp Power Supply Kit

former (PF4363) rectifier and filter capacitors.
It also has a 15V AC power supply for the speaker protectors. Cat. KA-1116 \$99.50

Speaker Protector Kit For 300W Amp

Ref: EA July 1980 This device is designed to mate with the Jaycar KA-1115 Playmaster 300W amp module, it also provides the handy facility of switch on mute. This disconnects the speakers for the first few seconds when the amp is switched on, avoiding that horrifying thump in the speakers.

This speaker protector is chean insurance. The Jaycar kit provides all PCB parts including the \$23.50

## Verstaile Guitar Preamplifier

Ref: ETI November 1987

Main features include; a top boost and normal input for quitars, two pre-eq line inputs, bass and treble controls. effects send and return, a sweep eq section, four post eq line inputs and a master level control. No level ntrol is provided for the line inputs as typical inputs would be drum machines and synthesisers. Idea where there are insufficient amp inputs for all instruments. Bass and treble will provide max out and boost of frequencies at 100Hz and 8kHz to obtain a

wide tonal range. To give a harder edge to sounds, a ton boost input is available whereby frequencies above 1kHz are amplified; at around 10kHz there is a massive 20dB of boost! The normal input has a flat response and is excellent for those mellow ryth cut is built into the input amplifiers. Kit is supplied with PCB and all components. Hardware items - 6.5 skts rmer are not supplied. Power requirements

\$45.00

Subwoofer

**Amplifier** 

Ref: EA July 1982

ower supply filter capacitors

State-of-the-art MOSFET technology combined with a low pass litter. Around 100W rms drive capability, ideal for use with the Jaycar subwoofer speaker (Cat. CW-2119) Amp will take line level (1V)

input or connect direct to speakers.

The Jaycar kit includes all PCB parts, heatsink, and

\$125.00



Ref: ETI July 1980

Mixes up to 4 inputs (high and low level) with individual level controls. Includes high performance 3 band tone controls making it ideal for musical instrument use out a case so that you can build it with a power amplifier if you wish. Operates from 2 x 15V AC (usually available from power amp supply, otherwise use Cat. MM-2008 transformer) SPECIFICATIONS:

Hum & Noise Frequency Response Tone Controls

76dB below 50mV input signal (20kHz bandwidth) 30Hz - 30kHz ± 1dB Bass ±17dB @ 50Hz Presence ±22dB @ 1.5kHz Treble ±22dB @ 10kHz

Max Output before Clipping Cat. KE-4014

\$39.50



## **High Performance** Microphone Preamp

Ref: AEM August 1987 This preamp features DC coupling throughout and

achieves a signal to noise ratio of 80dB, comm mode rejection ratio exceeding 8dB well beyond the audio band and provides for phantom powering up to 18 volts. In addition it can be employed in a variety of balanced and unbalanced configurations, balanced in to balanced out, balanced in to single ended out, single ended in to balanced out and single ended in to single ended out, ideal replacement for balanced microphone transformers often used in professional applications Short form kit - PCB and components only - no power supply and housing supplied.
SPECIFICATIONS TO PROTOTYPE

Voltage Gain: 170 (approx 45dB) - Slew Rate: 18V/ us - Large Signal Bandwidth: >130kHz - Frequency Response: ±0.1dB;DC to 120kHz • THD (20kHz bandwidth, balanced mode FLAT measurement) Source Impedance 0 = 200nV: 200R = 353nV: 600R = 441nV · S/N Ratio (re 10mV input, 600 ohm source fiat) - Common-Mode Rejection Ratio (CMRR): 100Hz = >110dB; 1kHz = >110dB; 10kHz = >100dB;



## Super **High Power** Mosfet **Amp Module**

Ref: EA October 1985 UP TO 225 WATTS RMS INTO 4 OHMS

This mighty circuit designed by the EA engineerin team is basically a beefed up version of part of the Playmaster 200. It consists of essentially the same nower amp circuitry as the 200 except on a redesigned PCB which also incorporates a speake

protection and turn on relay. Considering the power available, this is very prudenti The Jaycar kit contains all PCB components including the heavy duty relay. Cat. KA-1622

\$99.50

## **AEM 6505** "Workhorse" Amp Module

100 WATTS INTO 4 OHMS/50 WATTS INTO 8 OHMS! AND CHEAP! Ref: AEM January 1987

A genuine low cost power amp 'slave' module. Similar in concept to the ever popular ETI480 series but with power supply filter caps on board. This simplifies power supply requirements and keeps costs down.

All that is required to make the module operational is ±30 - 40V (DC unfiltered) a signal source and a load! Works well with PA line transformers too. All board parts are supplied including jig drilled heatsink bracket SPECIFICATIONS OF PROTOTYPE Output Power: 50W RMS into 8 ohms and

100W RMS into 4 ohms - Frequency Resp 15Hz to 35kHz -0.5dB; 10Hz to 50kHz -1dB • Total Equivalent Input Noise (20kHz noise bandwidth) <5.5uV · S/N Ratio >100dB · Total Harmonic Distortion (THD): <0.05% at 50W; <0.06% at 10W; <0.15% at 1W all at 8 ohms

Protection: Electronic Cat. KM-3050 Suitable Heats Cat. HH-8572 \$5.50 or Cel HH-8541 \$7 50

\$35.00







## Signal Powered Loudspeaker Protector ETI 494

Ref: ETI October 1982 This unit affords both DC and over-po

of loudspeakers or systems rated at up to 1500 wattsl The unit requires no power supply and has no discerning audible effect on sound quality making it suitable for both Hi Fi and sound reinforcement digations. Two required for stereo Kit includes PCB and all components including

relay. Cat. KE-4023

\$22.50

## Musicolor IV

### Ref: EA August 1981

The Musicolor IV is the ultimate light controller, it is a four channel light unit and with the flick of a switch becomes a four channel light chaser.

The chaser features forward/reverse plus an automatic forward/reverse pattern.

Four different chaser patterns can be selected via the front panel. The maximum light load is 600 watts per channel or 2400 watts total. Ten 60 wat globes can be used on each channel - 40 in total, Ideal way to brighten up a party room - or for an attention grabber in store window displays - the uses are

Unit has an inbuilt microphone, so the unit can virtually be sat anywhere near a Stereo to be used, or can be connected to a speaker.

Kit is easy to build, works extremely well and is supplied with everything including

- · Front panel LED display
- · 4 different chaser patterns · Auto and manual reverse chase

case, front panel, 240V output sockets and all components.

- · Sound-triggered chase
- · Inbuilt electret microphone
- · Safe, opto-isolated circuitry Cat. KA-1010



\$125.00

## 3 Band **Shortwave** Radio

This is a great project for the budding SWL or amateur or anyone. Although there is one IC, you'll have to get down to the nitty gritty of kit constructing: Winding coils, aligning and tuning. When that is done you can tune into many international broadcasts operating on the shortwave bands. As it stands, this receiver can tune from 0.48MHz to around 17MHz in 3 bands.

Band 1 - 0.48MHz to 1.9MHz Band 2 - 2.15MHz to 7.7MHz

Band 3 - 6.12MHz to 17.12MHz

The project features high sensitivity and high performance at low, low cost. Any DC voltage between 11 and 20 volts is suitable. Kit includes PCB, all components, box and silk screened and punched front panel.

Cat. KA-1681

\$79.50

## **Vocal Canceller**

## Ref: EA April 1982

Do you think you can sing? How uld you like to be the lead singer in a famous rock group (or any group?) You can cancel out the lead sing

from almost any stereo record and substitute your own voice or me instrument

Complete kit includes case Cat KA-1430

\$24.95



## Stereo AM Decoder

(Australian Standard) Ref: EA October 1984

This unit uses the Australian standard Motorola CQUAM decoder chip. It will decode the new AM stereo transmissions (with suitable AM tunors) The Jaycar kit is supplied with 1% resistors in lieu of the standard one

extra precision.
Cat. KA-1555 \$26.50
NOTE: This is the ONLY kit that is COUAM ONLY. Other kits are COUAM plus other non-Australian standards. Why pay more for what you don't need

WHISTLE FILTER You will need two whistle filters. You

can use the one already in your radio for one channel and we can supply the other. Cat. LF-1300 \$23.95

## **Compact Disc** Plaver Attenuator

If you have just purchased a comapct disc player your amplifier could be troublel CD players seem to have standardised on a 2V output love whereas most Hi Fi amps have a 500mV sensitivity for full rated output. In order to overcome this you may need a CD attenuator. It does not distort the signal in anyway. It makes an ideal project for beginners but can be useful to the most advanced construct The Jaycar kit includes box, switch, front panel, etc. \$9.95 Cat. KA-1624



## **AEM 6504** Power-Up 'Status Monitor'

Ref: AEM August 1986 This is basically the ultimate speaker protector. Its prime function is to detect ampifier clipping (indicating overload). It does this very well even to the point of providing "pulse-stretch" so that your eye can respond to the clipping LED indicator. (Intermittent short duration clipping may not be noticed if the LED is only on for a very short time). The AEM 6504 also has facilities for power or and power off de-thumps as well as DC et sensor and rail integrity sens The Jaycar kit consists of all board

ents including the massive National brand interrupt relay which has a 55 AMP innush current rating lequires between 12-0-12 and 30-0-30V AC to operate and is rated (conservatively) to 300 watte Cat. KM-3045

\$49.00

## Sub Carrier Adaptor for **FM Tuners**

Ref: Silicon Chip Jan '88 This simple adaptor circuit fits in your FM tuner and lets you tap into hi FM transmissions. Just recently the Dept. of Transport and Communications announced that it is ready to authorise subcarrier transmissions on FM broadcasts. Testing of these transmissions is going on right now and you can listen to them by building this simple adaptor circuit. The transmissions will be on 67kHz and will have no effect on standard FM mono and stereo radios. Kit requires +15V -30V Kit includes PCB and all components

Cat. KC-5014 \$22.95



design uses only a single IC and a handfull of other components. Simple to build, it gives remarkably good results Kit includes PCB, metal tuning gang, ferrite rod and all components. Requi 9V 216 battery. Requires an amplifier Cat, KS-8105 \$16.95 would suffice. Cat. KS-8104 \$12.95



A very stable and reliable amp designed by David Tilbrook. This amp features a LM301 IC preamp and rugged TIP31/32 output devices, It is ded as a 'Bench' amp, i.e. to test out other near that you have built. It gives a loud output and can also be used as a Hi Fi amp (not stereo). The only part not to mount on the PCB is the volume control pot, virtually guaranteeing that the amp will work rst time. It only needs a 9V battery to

Cat. KS-8105 \$16.95

## Clipping and Fault Indicator For Audio Amps

Ref: AEM June 1987 An audio amplifier driven into h clipping will readily damage

kers, apart from sou terrible. A DC fault on an amplifier output stage can spell disaster. Add on this simple project to almost any auudio amp and it will tell you when the volume is up too far and/or why the speaker protector operated. Requires 12-30V AC or DC, Kit includes PCB and compone Cat. KM-3054

\$19.50

## **Active "Direct** Injection" DÍ Box

Ref: FA October 1987 Our new low cost DI box offers performance and facilities only found on the most expensive units.

converts a high impedance unbalanced input to a low ce balanced output. FEATURES · Will run on Phantom powe 9V battery is switched off via input

jack, so when microphone is disconnected so is the battery · Earth lif Kit includes die cast hoy. Scotchcal label, Cannon and 6.5 connectors.

switches, PCB and all components



## Sonics/ETI

## Box

Ref: "Sonics"/ETI September 1985 In the Book 'n' Boll DA hysiness or

home recording game it is highly likely that one day you will need one of these, it is basically a small 'black box' that can transform an unbalanced signal to a balanced one) The applications for this, once you think about it, are endiess, Jaycars kit version of this project is not quite the same as the original design. We found after proabout 100 original kits that the pushbutton switchbank was very fragile and it was very difficult to cut out a slot in the die cast box to mmodate pushbuttons. We use rugged and easy to mount toggle switches instead. Apart from that it's SPECIFICATIONS

· S/N Ratio: 100dB (ref 0dBM) • Distortion: 0.03% @ +4dBM Input Impedance: 500k nom (unbalanced) - Output Impedan 600 ohm nom (balanced Cat KF-4708 \$37.95



## Metronome with Accented Reat

Ref: EA November 1987 A metronome is a must for people learning music. This classy metronome will provide a steady accented round beat, which is variable from 42 to 208 beats/sec. Features an eccented beat every second, third, fourth or all of them can be accented Kit is supplied in a short form version so you can build it into whatever you like. PCB, speaker, switches and all

components supplied, but no

\$19.95



## "Syntom"

A Jaycar Special Project The Syntom is a very effective drum synthesiser that can produce a variety of fixed and falling pitch effects, triggered either by tapping the unit itself, or by striking an existing drum to which the device is attached. Four potentiometers give control over different characteristics of the sound

The decay pot governs the time taken for the sound to die away after each strike, from less than 1/10 sec. to several seconds, giving a wide range of envelopes. The frequency of the note is variable over the entire audio range by means of the pitch control, and the sweep control introduces a voltage causing the pitch to fall as the amplitude decreases. These controls when used in combination with each other enable the most popular drum synthesises effects heard on commercial record be obtained. Power requirements 9V 216 battery. Kit includes PCB, all components, case and Scotchcal front

\$42.50



Cat. KJ-6502

## **JAYCAR** No.1 **FOR**

## **Audio** Balanced Line Driver

Ref: AEM July 1987

This kit is a dual channel (stereo) unbalanced input to balanced line output driver. Ideal for driving an active loudspeaker system where the pow ample) are in with the eneakers. Other applications for the unit include PA systems where line level signals have to be conducted over long distances, and bridging a pair of amo Kit includes, DIN, RCA & Cannon sockets, box, PCB and all parts including the excensive LH0002CH's. Cat KM-3060 \$99.50

## ETI 1402 Digital Sampler

This simple project enables you to record a sound and play it back. So what? Well the way that it can play back is the trickl

The circuit stores the sound digitally in CMOS RAM. The stored sound can be clocked out of memory at different speeds - so you can change the pitch! As a bonus you can use it for pseudo reverb or as a simple digital delay line. Great for percussion! The Jaycan version of this project comes complete with all board

components CMOS RAM vox - even a 240V power

Cat. KE-4720 \$119





## **Effects Unit** For Musicians featuring BBD (Bucket Brigade Device)

Ref: EA June 1983 Achieve brilliant sonic effect phasing, flanging, reverb and echo. Whether you're a professional ician or an aspiring amateur, this unit will add a whole new dimension to your music

Three input sockets are featured, each with different input signal levels These might be used for electret microphone, electronic guitar and line

ECHO - Circuit has two categories of echo effect "single" (phaser) and SINGLE ECHO - Original signal is presented to the output of the unit together with a delayed version of the signal. Adjustable delay between

1mS and 25mS. PHASING - Achieved by mixing original signal with an echo of relative short delay

REVERB - If a certain amo delayed signal is fed back to the input of the delay stage, it is possible to achieve multiple decaying echos. Some extraordinary and varied sounds can be produced by the adjustable depth control. ELANGING - With a short echo delay n reverb depth, flanging and maximu is achieved. This is a more profound version of phasing and makes the music sound as though its travelling down a long piece of drainpipe. Kit includes PCB, box, front panel, transformer and all components even IC sockets. Cat. KA-1522 \$115.00

Government Instrumentalities. Schools, Public Companies. If you wish to purchase from us. simply send us vour official order and we will give vou a

complimentary 30 day account.

## Guitar **Phaser**

A Hobby Electronics Project Most musicians are familiar with the swishing, almost oily effect known as 'phasing'. This phaser is a low noise design drawing very low power duty bypass foot switch. Unit is turned on when an input is connected and off when it is removed. Complete kit and die cast box supplied, (9V battery required).

Cat. KS-8102

## **AFM 4600 Dual Speed** Modem



Ref: AEM December 1985

This project enables you to construct a modern that operate duplex or 1200/75 Baud half duplex (i.e. CCITT V.21 Orig; CCITT V.21 Ans; CCITT V.23 (mode 2) Orig & CCITT V.23 back) for a fraction of the price of equivalent built

The device simply connects to the RS-232 serial port of your PC to enable you to communicate to other PC users. Swap programs - do what you like.

Also talk to Bulletin Boards or Telecom's Vistel service. (Most of Australia's public data communications is V.21 or V.23).

The Jaycar kit uses all the original components and after much field testing has been debugged. It works well.

\$169.00 Cat. KM-3040



## Super Simple Modem

Ref: AEM September 1986

We have been asked so many times for this kit, we have decided to include it in our

This simple to build modern features operation of the popular communications standard of 300/300 full duplex plus 1200/75 half duplex, providing access to many of the bulletin boards and public dial-up data systems. Viatel and other Video

his project is designed around the 7910 world modern chip Kit includes box, Scotchcal front panel, line transformer, RS232 socket and all components including the 7910.

The plug-pack is extra - Cat. MP-3020 \$13.95 Cat. KM-3046

\$85.00





## Modem End-of-File Indicator

Ref: Silicon Chip February 1988

Don't tie up your phone line for longer than you have to. This simple project can be easily fitted to most moderns and sounds a buzzer at the end of a file transmission Cheap and easy to install and is suitable for use in all moderns that use the AM7910 world modern chip which means virtually all mode baud duplex.PCB and components supplied.





\$9.95

## RS-TRUE-232 Converter

Ref: AEM September 1987 Whilst a great many computer peri-pherals are designed to interface via an RS232 serial data connection moderns and printers being common examples, some computers have "serial" ports which do not provide signal levels that truly conform to the RS232 signal standard, employing TTL-level signals instead. It might be convenient for the manufacturer and their own add-ons, but not for you when it won't "drive" some equip-

ment you've purchased.
This kit is the "B" general purpose version which accepts a standard 25 pin "D" connector on one end and has pads for flying leads at the other, Will paus for hyng leads at the other, whill accept standard TTL level signals and convert them to true RS232 levels as well as accepting RS232 levels and converting them to TTL. Kit includes 25D female socket, PCB and comp-

\$24.95 Cat. KM-3062

## RS-TRUE-232 Converter for Commodore

Ref: AEM Sept 1987 As above kit, but suited for Commodore. because this one derives its power from Kit includes PCB, all components and the 25D female and Commodore edge

connector. Cat. KM-3065 \$27.95

## ETI 1601 **RS-232** Interface for Commodore C-64 & VIC20

Ref: ETI July 1986 This kit enables you to connect to either your C-64 or VIC 20. Edge Connector to suit Commodore Cat. PA-0888 \$6.95

> Cat. KE-4722 \$16.95





## ETI 675 RS-232 to Centronics Adaptor

Ref: ETI January 1984 This small project enables you to interface a printer to the RS-232 initiation at principle to the Po-232 serial port on your computer. The kit consists of PCB and parts (including a special right angle Cannon DB25 plug) but not the Centronics plug or DIP switches, which are optional anyway. Cat KF-4666

\$32.50

## Computer Controlled Electronic Strobe

Ref: EA August 1987 The cheapest electronic stroboscope costs over \$300 and even a project version adds up to \$100. By converting an old electronic flash from a camera and triggering it by computer an accurate s built for a fraction of the price Ideal for High School physics courses, to analyse standing wave on strings and wave motion on ripple Kit includes PCB, case and

electronics, but not the corn plug or flashgun. Cat. KA-1688 \$13.95



## Low Cost

## Speech Synthesiser for vour Computer-**AEM 4504**

Ref: AEM February 1986 This low cost project uses the SP0256A-AL2 allophone speech processor IC. It will work with a Com modore C-84, VIC2, Microbee or any computer having an 8-bit I/O port. The speech pitch can be adjusted giving ranges from about Kamahl to Joan Sutherland, The kit includes PCB, speaker, 16 pin IDC DIP header, IC sockets and all

\$43.50 Cat KM-3042



## Listening Post

Ref: AFM July 1985 Our most popular AEM kit so fari This device attaches between the audio output of a shortwave receiver and the input port of a computer. It allows decoding and printing out of morse code, radioteletype (RTTY) and radio facsimile (FAX) pictures. Now you can 'eavesdrop' on all those weird signals you find littering the shortwave bands. Get into the international news services

print your own weather mans. listen-in on ship-to-shore radio. The Jaycar kit consists of all essential narts to construct the project including Scotchcal front panel and software

m for the MicroBee or C-64 \$39.95



## Radio Teletype Modulator

Ref: AEM May 1987

Ideal companion to the very popular "Listening Post" kit (see above). This simple, versatile unit is intended for attachment to a personal computer using software to generate the radio teletype (RTTY) Baudot code

The unit is not computer specific although the method of connection to any given computer will generally be mined by the software in use irtually any machine with a TTL level I/O port can be used successfully. PC board and all components supplied.

\$32.50

**JAYCAR** No.1 **FOR** KITS

## **Packet** Radio for Commodore

Ref: AEM July 1987

Packet radio has become the fastest growing mode in amateur radio since the introduction of two metres EM. If you are intrigued by this mode but have been put off by the cost and difficulty of obtaining a TNC, then this project is for you. This system will allow you to get oing on packet with minima because the only bardware peeded in for the modern and some switching. Jaycar's kit is thoroughly recomme by the Packet Radio Society of

Australia. Kit includes PCB, box, Commodore edge connector. DIN plug & socket and 25D plug and socket.

\$59.95



## Satellite Decoder

Ref: AEM October 1987

The University of Surrey (UK) maintains two satellites - Lio-9 and Lio-11 Information transmitted is of an educational, amateur radio or technical nature concerning the satellites themselves. Very interesting! You can pick up the Narrow Band FM (NBFM) signals from the satellites as they pass er with a simple antenna (at 145MHz), and say, a scanner or 2m

Audio FSK signals from the receiver are processed by project 3506 and presented to your computer as 'RS232'.

A simple 'Dumb Terminal' program will allow your computer to decode the

signals and reproduce the text transmitted by the University on your nitor (or printer). Jaycar kit includes all specified ponents including 25D female

socket, RCA plug & socket, box, MAX231, etc \$55.00 Cat. KM-3063



## Telephone (1) Intercom Power Unit ETI 291

Ref: ETI February 1988 If you have two of the old Teleco

rotary dial telephones, don't throw them away. For less than \$60 you can have a practical home intercom system. Just nect two phones to the output of the ETI-291, spin the dial on one phone to tinkle the bell on the other and talk. No modifications are peeded on the telephone and the unit will operate telephones separated by up to a few kilometres

Perfect for houses, shops, factories or wherever a high quality intercom is required

Kit includes PCB, two trasnformers, two telephone sockets, box and all components. Two core speaker cable is all that is required - Cat. WB-1702 25¢ per metre \$19 per 100 metre reel Cat KF-4731



## Off Hook Indicator for Telephones

Ref: Silicon Chip Nov '87 How many times have you been on the phone when someone else in your household has picked up another extension and begun dialling?

Another common problem in a multi-phone household is that possibly you've answered an incoming call on one phone, then moved to another phone to carry on the conversation, leaving the first phone off the hook. Hours later, you discover that the phone is still off the hook and you wonder how many calls you've missed. This circuit avoids those hassles. You can build one into each phone

so that a LED will then flash, on every extension, to indicate whenever the line is in use. The unit is very easy to install and it should be possible to fit it into even the most compact pushbutton phone. You simply connect it across the incoming line to the handset. No

batteries or power circuits are PC board and components only. Cat. KC-5011 \$12.95



## Telephone Rinder

Ref: Silicon Chip Jan '88 Are you tired of the sound of your telephone helis? You can change to a modern sounding chime by building this simple module. If you work in a large office with many phones you can set the tone of your phone so it is distinctly different to all the others. nalise your phonel Small anough to be installed in just about any phone, Kit includes PCB and all arts. Powered through the phone. Cat. KC-5015



## FTI 283 Custom Telephone Ringer

Ref: ETI April 1987 Connect this to your office or home phone (with double adaptor) and generate your own space and elephone ring tonel Can be adjusted to give very 'spacey' arcade game like noises! If you work in an

environment where you cannot tell if it's your phone that is ringing, this is for you. Case and all electronics included. Double adaptor Cat. YT-6020 \$7.50

Cat. KF-4728 \$29.95



TURN YOUR SURPLUS STOCK INTO CASHII Jaycar will purchase your surplus stocks of components and equipment. We are continually on the

lookout for sources of prime quality merchandise. CALL GARY JOHNSTON

OR BRUCE ROUTLEY NOW ON (02) 747 2022

## 30 Volt - 1 Amp Benchtop Power Supply



This design features a modern moulded plastic bench top type case, variable Inis design seatures a modern motione pisatic bench top type case, variable output from 3 - 30 voltes and variable current limiting over 2 ranges. Overload protection and switchable voltage/current metering is also provided. Kit is complete with PCB, box, punched and screened front panel, Sootchcal meter

ecale, heateink meter and all compon

- FEATURES AND SPECIFICATIONS
- · Short circuit protection . 3 - 30 volts output
- · 0 1 amp output current (variable current limit)
- · Load switching
- 0.2% load regulation

· 2mV rms ripple Cat. KA-1574

\$89.50



## **Dual Tracking** Power Supply

Ref: Silicon Chip Janaury 1988

Another power supply kit? Another power supply NT.

This one gives from  $\pm 1.2V$  to  $\pm 18.5$  volts @ 1.7 amps between  $\pm 3V$  and  $\pm 10V$ .

Above 10V the available current reduces to 200 milliamps at  $\pm 18V$ . It's the baby brother to our KA-1682 (see below) and \$30 cheaper for those who don't require 22 volts

ZZ VOIS.

This supply has voltage metering, a LED dropout indicator and short circuit

protection. The Jaycar kit includes PCB, all components, box, meter, screened and punched front panel. Cat. KC-5022 \$99.95



## **Dual Tracking Power Supply**

Ref: EA February 1987

Based on readily available components, this power supply can provide voltages from 0 to +21.5V at currents up to 2 amps. It also features overload protection, a fused +5V 1 amp output, and output voltage metering.

Kit is complete with quality punched and screened metal front panel, Scotchcal meter panel, heatsink, meter and all components

SPECIFICATIONS

- · Housed in tough "ABS" instrument case
- · Fully protected against short circuits, overloads and thermal runaway
- · Employs fold back current protection · LED indicator for regular dropout
- Voltage adjustable to within 10mV • Output ±1.3V to ±22V @ 2 amps -5V @ 1 amp
- . I nad switch

Cat KA-1682 \$129.95



## **Universal Speed Control**

Ref: Silicon Chin December 1987

KIT 1 This multipurpose circuit can be used as a speed control for electric drills or fans as a power controller for electric blankets or soldering irons, or as a table lamp

The electronics are PARTIALLY assembled on a PC board, Just connect the mains plug and socket and mount it in a Jiffy box and it's finished. Should take you about an hour. As an added bonus, it incorporates components for suppression of electromagnetic interference

electromagnetic interierence.

Complete kit includes pre-assembled PC board, box and front panel, mains cable and plug and socket.

CONTROLS

Electric drille

Fans
 Electric blankets

· Lamp dim Soldering irons

Cat. KC-5016 ALL FOR \$18.95



KIT 2 - UNIVERSAL SPEED/LIGHT/HEAT CONTROLLER Short Form Version

As used in the above kit. It is an if you wish to mount it in a piece of equipment. PCR measures 45 x 60mm with most of the components professionally soldered in. Wil control up to 3 AMPS (i.e. 750VA). A small heatsink may be required on the TRIAC over 2 amps, includes assembly connection instructions Cat. KJ-6522

\$9.95

## FTI 581 +15V 150mA **Power Supply**

A classic design. Many, many hundreds of these units have been sold since their inception in 1976. Probably the most simple ±15V low current supply around. Ideal for OP amp projects, computer projects or any project requiring ±15V from 240V.

Kit includes 240V PCB mount transformer, PCB, and all board components, Does is cord, fuse, etc. Designed to fit into a small space Cot KE-4405 \$27.50

## Car Stereo in your Home

Ref: Silicon Chip November 1987

Adapt a surplus car radio/cassette player for use in your home. Decent table type radios are expensive. Converting a car radio to run off the mains is quick and easy and inexpensive. This kit is a power supply to do just that. Kit includes transformer, and inexpensive. This lit is a power supply to do just that, his fictudes transformer, PC board and all components. You can build it into a mantle type radio very simply using instructions supplied, so dig that radio out of the bottom of the wardrobe. Suggested speakers are Cat. AS-3014 6 x 4" \$10.95 each.Wor \$28.95

Did you know that many car radios have far better RF sections than alleged 'Hi Fi' tuners?





## Experimenters Power Supply

Ref: EA September 1987 This easy to build power supply is ideal for the experimenter on a limited budget. It

features switch adjustable output voltage and current limiting. Switchable voltages are 1.5. 3. 5. 6. 9 and 12 and current limit is 10. 50. 200 and 500mA. Kit includes PCB, box, and all components except AC power paci Cat. KA-1689

\$26.95





MAIL ORDERS-INQUIRIES 02 747

## 12-230 Volt Inverter

This compact design features a toroidal transformer, automatic self starting, current limiting and thermal overload protection

The applications of an inverter are many and varied. . On the farm for electric drills, soldering irons, welding, etc., where mains is not

Building sites for drills, sanders, saws, etc., where a long extension cord is

gerous emote outback for powering audio and video equipment, lights and power tools. Hemote outback for powering audio and video equipment, lights and power toos.
 FEATURES: Small toroidal transformer - unit can be carried in one hand. Previous inverters were huge. - LED indicators on front panel which indicate if voltage is regulated, if circuit shuts down due to thermal overload, if excessive current is drawn, in which the inverter automatically reduces its output voltage to limit output

current. • Unit consumes virtually no power until an appliance is switched on, the circuit then starts automatically. This is an excellent kit, which works extremely well and is straight forward in its assembly. We have sold thousands. Kit includes punched and screened front ble mains point, toroidal transformers, everything to complete the kit.

SDECIEICATIONS Nominal supply voltage: 12V DC • Frequency: 50Hz crystal locked • Maximum

time to build it, we have it available

OAUSTRALI.

completely assembled.

Load: 3	00VA • Current L	imiting: 30A (prin	nary) • Standby Current: 580uA.
LOAD	OUTPUT	INPUT	BATTERY LIFE
(W)	VOLTAGE	CURRENT	40Ah/20hr
	(RMS)	(A)	(Minutes)
40	240	4.6	240
100	250	11.9	80
200	240	21.7	50
300	230	30.3	28
Cat. KA	-1610		For those of you who don't have the

\$269.00

Soldering Iron

Temperature

Ref: ETI September 1986

If you have put off buying a temperature controlled soldering iron because they are so expensive, your problems are solved with this low cost soldering iron temperature controller. While this kit may not have all the features of a soldering station, it provides fully regulated, adjustable temperature control over a reasonably wide temperature range. And there is no need to discard the soldering iron that you have now. It will work with just about any conventional 240V iron rated from 20 watts to 75 watts and can easily be adpated for use with higher powered soldering

Complete kit with PCB, all components, case, panel and mains plug and socket

Controller

irons

Cat KE-4725

## 40 Watt 12/230V Inverter

### Ref: EA August 1985

This improved design enables you to run small 240V appliances from a 12V car battery with modest current drain.

When not in use it can also be used as a battery charger! As the 50Hz mains frequency is crystal generated the inverter is ideal for friving synchronous motor turntables with great speed accuracy

The Jaycar kit is complete and original to the project article as is usual with our kits. An attractive silkscreen and drilled front panel provided. \$99.95 Cat. KA-1598



## 24V to 12V Converter for Trucks

Ref: Silicon Chip Dec '87 This 24V to 12V converter can deliver up to 5 amps with very little power loss. It is intended for powering CB radios and radio/cassette players in trucks which normally have 24 volt battery supplies. It's far better in the long run than tapping off the battery banks as this has long term drawbacks on battery Kit is complete with all components and

Cat. KC-5017 \$59.00



## Constructors Manual

A must for amateur constructors Contains much useful information for the more experienced. Huge amounts of information on construction and ntification of parts. 8 nanes





## Etching

Make your own printed circuit Full instructions are supplied to help

Float Charger

NiCad

Ref: FTI March 1983 This NiCad battery charger provide a happy medium between fast chargers and constant current chargers. It will bring a set of cells up to full charge from complete discharge in about 12 hours and then automatically drop to a trickle whenever the charging is done. This means full recovery in half a day with safety from overcharging damage Designed to charge 4 x AA batteries in series, but you can charge different numbers of cells of amp hour capacities between 250 and 1Ah simply by selecting the values of three resistors according to a table supplied with the kit. The project can be incomprated inside a piece of equipment or it can be built into a dedicated charger at very little

only - no hardware Cat. KE-4029 \$14.95

## Solar Generator

cost and will run off any power supply of 10 to 22 volts. Kit includes PCB and com

Ref: ETI December 1987 With advances in solar cell technology, falls in price and higher efficiency, solar cells have finally begun to be practical sources of power. This is a cheap, no fuss way

to thrickle charge a 12V lead acid car battery in any area where mains nower is unavailable. Ideal for remote data acquisition stations caravans and boats. The type of solar panel required is not very critical. Almost any unit will do the job. Typically no more power than 6 watte is required with an output oltage of 12 to 20 volts Kit includes PCB and all components excluding cell and

epoxy. Cat. KE-4730 \$12.95

DOES NOT INCLUDE SOLAR CELL





boards. This kit contains a bag of Ferric Chloride, a piece of copper plad board and a dalo etching pen you get started making your own PCB's \$9.95 Cat. KJ-7900

COUNTRY ORDERS 008 022 888

## 8 Sector Burglar Alarm

Ref: EA Jan/Feb 1985
This unit costs far less than equivalent commercial alarms. In fact we don't know of an 8 sector commercial unit under \$400.
The box has been purposely made by

commercial unit under \$400. The box has been purposely made by Jaycar and is screened and punched as the inside panel is too. We no longer use the cheaper petty cash

Dox.

Marm has 8 separate sectors and heat on monitored independent on the monitored independently. Each sector is provided with an indicator LED and an on-lord switch. The multi sector approach has the advantage that if one sector is triggered and the alarm cycle has tru triggered and the alarm cycle has truncated by the other active sectors. The sector disable switches are a great idea. These enable the user to solute one or more sectors as expected to the control of the control of the trust of the sectors.

remian protected; e.g. internal PIRs can be disabled while perimeter sectors remain active, or in a retired to story house when the family retired to story house when the family retired for the night the bottom floor can be fully alarmed. Each sector is identical and will accept both NO and NV. Sensors and has end of line resistors, so if a wire is cut, alarm will sound. Two of

the inputs have delays.

The alarm has a warning buzzer which warns that the alarm is about to sound. You can adjust this from 5 to 55 seconds. Ideal # you forget to switch the alarm off upon entry. When triggered, the alarm off upon entry. When the alarm off upon entry which the alarm off upon entry is the alarm of the a

speaker for between one and 15 minutes, and also trips a relay which can turn on a bell or TV camera, etc. Alternatively, you can have a selent alarm in which the relay can activate a dialler. It has a back-up battery facility (battery not supplied) with a charger circuit. Kit is supplied with mains transformer so you don't need to buy an expossive power supply. Kit is supplied with PCB, all components. Switches, power lead, 4.

components, switches, power lead, 4 alarm stickers, horn speaker and case. Options are Gel Battery 1.2Ah Cat. SB-2480 \$22.50. Beware of other kit suppliers that don't supply all of the above.

of the above. Cat. KA-1582 \$169.00





## 4 Sector House Alarm

Ref: ETI May 1985 This clever design incorporates all the features required in an alarm at a truly

low price.

4 sectors (2 with delay, 2 without)

N/O and N/C sensors can be connected to the same sector

Loaded sectors, so if a wire is cut,

alarm will trigger

• Adjustable alarm time

• Will automatically re-arm after going

Seven LEDs supplied to indicate:
 power is on
 at turn on 4 LEDs indicate if each sector is sealed

 after short time any unsealed sectors are locked out and LEDs are extinguished
 if triggered LEDs will indicate which

On board siren driver for horn speaker
 DC 12V lamp output for bell
This is a feature packed alarm.

Kit Includes PCB, and all components. Cat. KE-4698 \$29.95

## Electronic Rain Gauge

new for

### Ref: EA March 1987

Have you always wanted a rain gauge but could never be bothered going out to empty it? Our electronic rain gauge kit automatically empties itself, has a remote display which can be indoors and measures up to 999mm of rainfall with 1mm resolution.

with 1mm resolution.
Our kit is a short form kit with
electronics supplied, but no mechanical
parts which are cheap and readily
available.

Kit includes PCB, front panel, box, perspex, reed and magnet, switches and other components.

Cat. KA-1687

\$49.95



## Microwave Leak Detector

Her: E11724 if you own a microwave oven, your peace of mind is worth the price of this kit. Extremely simple and foolproof to build and use. Gives a positive indication of the security of your oven's seal. Complete kit with box, front panel, meter, PCB's and all componments. No hatter, reculting





## **Electric Fences**

### "ELECTRIC FENCE" Ref: EA September 1982

Mains or battery operated powered, this electric fence controller is both inexpensive and versatile, it should provide an adequate deterrent to all maner of livestock. Additionally, its operation conforms to relevant clauses of Australian Standard 3129. Kit does not include automotive ignition coil which is required.



## ELECTRIC FENCE CONTROLLER NEEDS NO AUTO COIL!

### Ref: EA December 1985

This electric fence controller is a considerable development over older designs (which is still currently available). Because this new circuit uses a special output transformer it is far more likely to

bocause into first wind use a special coupuit dissipant in its fail mine (with will find false loads such as tall grass or diffy linsulations. The new circuit has also less current drain but far higher overall performance.

The Jayrac kit is supplied with a sightly different box than shown in the illustration. Also included is a length of HT cable and heavy HT connecting clip.

Cat. KA1660.

\$59.50 \$59.50

## HIGH POWER ELECTRIC FENCE

Ref: EA October 1986

For very long fence runs, say 1km or more the KA-1109 and KA-1660 are inadequate. This kit has a much lower output impedance so it can drive long fence runs and can drive more punch, 5kV to be exact.

Low output voltage impedance stops the output voltage from dropping due to

loading effects caused by wet grass and dirty insulators. Unit is 12 volt powered and conforms to rigorous requirements laid down by the SAA. Kit Includes cabinet, Plessey 30uF capacitor, special transformer and all parts. Cat, KA-1678



\$229.00



Refer: Silicon Chip Feb 1988

This refined car burglar alarm has just about every feature you could want, and is easy to build. Included are a number of features which, to our knowledge, are not not included in commercial alarms but which are very effect MAJOR FEATURES:

· Delayed input to monitor all doors No delayed (instant) input to monitor boot and bonnet

 Automatic cut out and reset after alarm has been triggered. Siren sounds for 90 seconds and stops, but is adjustable,

 Ignition killer. As soon as alarm is triggered ignition is disabled.
 Separate siren alarm. Instead of using the cars horn, which can be easily disengaged, alarm has provision for a separate siren which can be mounted in an

sible place under the bonnet. (Siren not supplied). · Separate internal alarm. An unbelievably loud piezo screamer (116dB) is mounted Inside the vehicle making it unbearable for the thief inside the car, (not supplied).

 Back-up battery, Facility for a back-up battery if main battery is disconnected. (not supplied with kit! Battery sense, Alarm monitors the input from the main battery at all times, and it

this is disconnected the alarm will sound.

Ignition sense. Any attempt to start the vehicle (supposing that the thief has \* ignibilities and a second properties of the second prope

Alarm is turned on/off by a hidden switch only.

Kit includes - PC board, box. Scotchcal panel, 2 relays, flasher switch/light, bonnet switch, 2 alarm stickers and all components. Extras required are:

Inside 116dB piezo screamer Cat, LA-5255 \$17.95 Outside siren and driver Cat. LA-5700 \$26.50 Back-up Battery Cat. SB-2480 \$22.50

\$79.50



## Car Alarm

THOUSANDS SOLD

SCARE THE PANTS OFF WOULD BE THIEVES! This car alarm is fitted under the dash of the car and is designed with a new

deterrent strategy. When a thief breaks in (after entry delay) an unbelievably loud shrill sound goes off - INSIDE THE CAR making it too unbearable to proceed with stealing the car. The thief will be scared witless by the dealening noise of a demented 116dB monster canary.

The alarm has a dash lamp flasher, exit and entry delays, a three-second soft alarm to remind you to turn it off, and automatic resetting. It was no inputs are provided Both respond to a change in state, whether from high to two vious versa. To keep installation really simple, the circuit just uses a basic on/off switch which is hidden The Jaycar kit includes the direct import 116dB screacher, dash lamp, PCB and all

AUSTRAL

Cat KA-1675









## **Deluxe Car** Burglar Alarm

Ref: EA May 1984

This unit provides a very co sive array of facilities viz: Two delayed inputs, six instant · 10 second delayed exit, 10 second

delayed entry Provision for auxiliary battery
 Alarm trips for 2 minutes with automatic re-arming at end of slarm

· Alarm output: 1kHz tone modulated at 100Hz and 1kHz driving an 8 ohm

speaker (i.e. no separate siren driver Only 13mA current consump

500mA when alarm is triggered · Flashing dash panel lamp, operated on/off switch, provision for two-way protection

The Jaycar kit includes all board components, specified case and Scotchcal front panel Cat KA-1550 \$89.50



## Deluxe

## Ref ETI April 1984

This magnificent Jonathon Scott design will protect your valuable vehicle from virtually ANY sort of interference - from hub cap stealing to being towed away! It does nort rely on voltage or current sensing to trip the alarm, but "Resonance Microphones". It can also

driving lamps and roof racks. The roject (and our kit) meets the major requirements of car alarms set down by the well respected National R & Motorists Association (NRMA of NSW). This project features the following:

· 3 delays: entry, exit and alarn sounding time before resetting (all adjustable) - Perimeter alarm trips immediately if

the thief tries stealing mags, tyres, fog lights, etc. · Same alarm if thief tries to

disconnect battery of car You can arm the unit in a car park (for example) and still leave the keys with a third party (i.e. parking attendant)

 Engine condition warning buzzer facility The Jaycar kit features · 2 resonance microphones in the

basic kit. (Extra resonance mi available) Cat. AM-4000 \$8.50 ea. Original die cast box · 2 BONUS self-adhesive burglar alarm stickers.

\$79.50 Cat. KE-4678

Ref: EA August 1984 Designed to be used with the EA deluxe car alarm kit (KA-1550). Will provide added protection against illegal entry and will trigger the alars If a window is broken or if there is any rement inside the vehicle. It can also be used with some commercial

Kit is supplied with PC board, case and all components including the

Cat KA-1556 \$34.95





## Red Light

This kit is simply the easily-identifiable pushbutton square dash mounted back! Very sneaky! You get the deterrence of a flashing red light (the original light switch as used on the real alarms) but without the cost or installation hassle of a full alarm. Kit includes 2 BONUS car alarm window stickers Cat. KJ-7000

\$19.95 SAVE \$8.50



## Car Alarm

This is the alarm you fit when you don't fit an alarm. It simply operates a flashing light on your car's dashboard, which, hopefully will discourage car theft

The Jaycar kit includes two window deterrent stickers to further give the impression that a real alarm is fitted Cot KA-1630 \$12.95





### Breakerless (Hall Effect) Ignitions

A professionally engineered electronic ('breakerless') contact breake system Yes only lawrer has a complete Hall Effect triggerhead assembly designed to adapt to an extensive number of cars. Each kit contains the following:

· Hall Effect Triggerhead Magnetic rotors for both 4 & 6 cylinder cars

· Over 6 cam-lobe adaptors Over 12 different adaptor plates for your particular distributor Other hardware (i.e screws, etc)
 You can remove this system and re-equip your car with the origina breaker points when you sell the

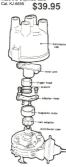
· As easy to install as a set of Instruction (simple to follow)

included This set is designed to fit most European and Japanese cars. In fact, it will also fit many Australian cars fitted with Lucas, Bosch, Motorcraft, AC Delco, or Autolite electrics. If you wish you can check first by sending a SAE for a car/distributor list. Because we have no way of knowing. you get the fittings set for ALL of the distributors available. Basically you end up with a jar full of parts yo need to use! (Perhans your next car?) frankly, we are amazed that we can supply such a comprehensive kit for this price. To produce a kit that will adapt to the dozens of different

distributors around is amazing Remember, once you have installed a breaker-less system it will never wear out and that part of your car will be in ne FOREVER

PLEASE NOTE: This system must be used in conjunction with an electronic ignition. The Hall Effect device will not switch enough current to replace the contact breaker points on their own This kit is unsuitable for Australian made 6 or 8 cylinder cars

\$39.95



## Interface Electronics to fit KJ-6655 to CDI's

or Transistor Assisted Assisted Ignition

This kit enables you to interface your breaker-points-type electronic ignition to the special Jaycar Hall Effect unit. Whilst it is specifically designed to interface to existing installations of the Electronics Australia Transistor Assisted on (e.g. the EA Jan '83 unit), - our Cat. KA-1506 - it can be made to accommodate other electronic ignition

\$9.95

### Hall Effect Conversion for all other Cars

kits - even CDI ignitions.

Cat KA-1504

If you have a car that will not take the very comprehensive KJ-6655 Hall type breaker point kit (see left), then this kit is for you. This kit is based on the SIEMENS German made HKZ-101 Hall Effect switch (It is available senarately Cat. ZD-1980 \$34.95). You can make piece of 20 - 16g sheet steel or buy one of the Bosch ones available thru auto spare parts stores (try Repco). This conversion kit contains the PCB and electronic components to interface the Siemens Hall Switch (Cat. ZD-1980) to a breaker point type electronic ignition (whether it be type CDI or TAI) (Siernens Hall Switch NOT included). Materials for rotor or Bosch rotors not available from Jaycar Cat. KA-1503

\$9.95

Siemens HKZ-101 Hall unit \$34.95





# Electronic

Ref: EA January 1983 Latest version of the fantastically popular kitl The Jaycar kit com complete down to the plastic TO-3 transistor covers, genuine heatsink and die cast box - as used in the original EA

Beware of filmsy kits that use sheet metal boxes. This kit is designed to be used with contact breaker points. If you want Hall Effect breakeriess option may we suggest the KA-1505 version of this Cat. KA-1506

\$42.50



## anition Hall

Breakerless"

Ref: December 1983 This kit is virtually identical to the KA 1506 except that it contains the interface electronics for the KJ-6655 Hall Effect Triggerhead Cat. KA-1505

\$44.95

## Battery

Ref: EA May 1987 Don;t get caught with a flat batteryl This simple electronic voltmeter lets you monitor the condition of your car's battery so you can act before getting stranded. 10 rectangular LEDs tell you your batteries condition, Kit includes PC board and all components

Cat. KA-1683 \$14.95

**JAYCAR** No.1

## **Pulse Shaped**

Ref: ETI Feb/March 1985 Capacitor discharge ignition systems are much more efficient than conventional or transistor assisted systems, and they're also much better at cetting maximum performance from

today's engines. Unfortunately early CDI systems were also unreliable and plaqued by problems such as engine cross-firing. Here's a new design which gets around all of the problems, but still res you all of the benefits. nninger Ian Thomas has written one

of the best articles we have over seen on the subject of CDI This project uses some pretty exotic components - all of which have been sourced by Jaycar. Naturally, the original die cast box is also supplied in our kit, along with all instructions. Cat. KE-4690

\$79.50

## Turbo Engine Cooldown

Ref: EA September 1986 This project when fitted to a turbo charged car keeps the motor running for approximately 90 seconds after ignition switch off.
This enables the turbo unit to cool

down properly and greatly extends turbo bearing life. This kit could save you the \$1000 or so if your turbo was otherwise replaced. Simple to build and ins



Ref: EA February 1984 This little project is cheap, easy to fit and effective. It basically is a timer circuit that disables your ignition system a few seconds after it is activated. A would-be thief starts the car, it goes a few metres and stops, nediately cranks the engine and it fires but it stops again moments later. This could continue idefinitely Frustrated, the thief looks for easier 'game' elsewhere. The Jaycar kit contains specified original components, instructions and 2 BONUS alarm sticks Cat. KA-1535

\$23.50

Ref: EA June/July 1987 This mutifunction IR remote control unit can control up to 8 channels or functions - DC or 240V AC. Suitable as a remote control for your TV set,

even a model railway. It will operate any device which is normally controlled with momentary or change over contacts. It also has an option nower on/off mute and un/down volume control.

versatile kit indeed. VA 1695 Dopolypr includes how DCD transformer and all components KA-1684 Transmitter includes PCB. box, Scotchcal panel, switches and all

KA-1686 Add-on includes 4 relays and all components for on/off up/down option. Extra relays Cet SY-4061 \$4 75 each

IR Receiver Cat. KA-1685

\$127.95 IR Transmitter Cat. KA-1684 \$45.00 On/off/Up/down Option

Cat. KA-1686

\$55.00



VOX to return to manual Short form kit includes PCB, switch and

Cat. KA-1692

Ref: EA November 1987

you want to transmit?

Are you an amateur or CB radio operator who is sick of having to push a

button on your microphone every time

Wall this simple device will take the

cost of a new desk top microphonel
This easy to build VOX incorporates

anti-vox circuitry and features

drudgery out of talking for less than the

adjustable gain on the microphone and speaker inputs. The delay period before

the relay drops out is also adjustable to

allow for varying gaps between words and syllables. It can also operate from a

wide range of supply voltages, allowing

the unit to be powered from the rig to which it is connected if convenient. A

all components, but not box, plugs or

\$24.95

switch is incorporated for disabling the



## Simple Timer

This project will alert you that a predetermined amount of time has elapsed. It uses 2 IC's and is easy to build and safe as it runs off a 9V

To keep the cost down a speaker is not supplied, though everything else is. Any eneaker will do \$11.95 Cat. KS-8129

## Fibre Optic Evaluation DIRECT IMPORT - YOU SAVE!!

The EDU-LINK kit is a fibreoptic evaluation system consisting of TTL compatible transmitter board, IR LED, one metre of fibre optic cable, photodiode and TTL compatible receiver board. The fibre optic connectors are also included. Complete step-by-step instructions are included as well as theory of operation and tutorial notes. An ideal learning aid for engineers, students and electronic hobbyists alaike Cat. KJ-6520





Ref: FA February 1988

Whether you wish your egg soft, but not too soft, or whether you want to add the time factor to a game or trivial pursuit, see and hear the time ticking at The times can be not for a total period ranging from 10 seconds to 15 minute This range can be changed, if required, by changing the values of certain

The timer has 10 LEDs on the front, which visually shows how much time is left. As each LED is lif, a beep is heard also. If a trivial pursuit question is answered promptly for example, there is a reset button, so the next played can start being timed promotly. A great kit with many uses

Kit includes box, panel, PCB and all components. A 216 9V type battery is Cat. KA-1697 \$21.95



Simple 3 Digit

unter with

This kit is great for scoreboards or any counting application. It will count to 999

events and then reset to zero. It can be ganged to count to high numbers. Two kits connected together will count to 999,999 for example.

A low voltage pulse between 7 - 14 valts will increment the counter by one digit. A simple counting circuit is

9V battery required (not supplied). All board components supplied Cat. KS-8114

\$23.95

included with the assembly inst



Ref: EA August 1986 Our digital photo timer kit includes a three digit LED readout with individual setting pushbuttons for each digit. A start/stop pushbutton and hold focus toggle switches control the timer operation. Times from 1 seco up to 9 minutes and 59 seconds can he set which is more than adequate for photographic usage. It also displays the time remaining before the end of the timing period. A three pin mains socket is on the rear panel for a photographic exposure lamp Kit is supplied complete with case. nt nanel and all r Cat KA-1674

\$89.95



Ref: Silicon Chip Feb '88 This project will sense a door opening in a large or small room and will sound a two-tone chime. The most obvious application of this project would be a door monitor for shops, it could also be used in offices, and even as a sensor in a burglar alarm. The Door Minder can be placed anywhere in the room, even an adjoining room, and windows can be opened, provided they are not really

ne Minder can be used on eithe side of the door because it senses a momentary drop in pressure, and works equally well with inward and outward opening doors. This is an excellent concept and it works very

Kit includes PCB, box, speaker, mic insert and all components All you require extra is a power pack to run off 240V Cat. MP-3007 \$14.95

\$37.50



**JAYCAR** No.1 **FOR** KITS

**BRISBANE 07 393 0777** 

## VHF Receiver for Weather

Ref: AEM February 1988

Many enthusiasts and educators wish to receive weather satellite pictures. Rather than trying up an expensive piece of equipment such as a scanner, this is a self-contained receiver designed for the job. Kit design incorporates a simple signal conversion superheterodyne receiver with 4 crystal controlled channels which can be operated from 12 volts Relatively easy to assemble, but some access to test equipment will be required.

Kit includes PCB, prewound inductors and all

Crystals and connectors are not supplied. Cot KM-2066

\$99.00

## Miniature FM Transmitter

Ref: ETI December 1985 Over the years Jaycar has had heaps of low cost FM mitters. They all suffer from severe problems of drift, low output and frequency change due to hand

This unit is a two transistor two stage transmitter that has the benefits of being VERY COMPACT. The Jaycar kit contains all specified parts and makes an ideal, inexpensive beginners kit.



Watch our monthly ads for all the latest kit releases throughout the year. Over the past 12 months we have released over 45 new kits.

## Telephone Line

Ref: Silicon Chip March 1988 No peed to put up with interruption from extension

phones. When you pick up the phone, this simple circuit cuts the extension dead. Stopping them from listening in or dialling out. Supplied with PCB, all components, case and Scotchcal front panel. (One unit is required for every

phone). Cat. KC-5025 \$21.99

This kit when fitted will greatly extend the life of those expensive downlights and spotlights. Not only that they are cometimes inaccessible. By "soft starting" the filament providing over voltage

protection and lamp derating the life of that bulb will improve out of sight. This circuit does all three.
The Jayour kit includes PCR and all board components and is designed to mount behind the wall switch plate. At \$16 it should pay for itself well within 2 years! 300 watt rated.

\$15.99



The latest in Hi Tech light switches! Put these in your home and your friends will be amazed.
The touch dimmer replaces your standard size light switch, and all you see is a silver panel the full size of

the plate To switch the light on and off all you need do is touch the plate anywhere. To dim the light just hold your finger on the plate, the light will stay at whatever

brightness it was when you remove your finger.
Uses a high tech Siemens IC. The Jaycar kit contains all the necessary components including the small contact spring and HPM wall plate.
Watch out for kits that don't supply all the necessary

\$29.95 Cat KA.1508



## Video Fader For Home Movie

Ref: EA January 1986

Add a touch of professionalism to your video movies with this simple video fader circuit. It enables you to fade a scene to black - and back again without loss of sync or colour. Will also allow you to fade smoothly from one scene to another as well as simulating night time soe Short form kit with PCB and components suplied

ires 12V AC Cat. MP-3010 \$13.95



## **JAYCAR** No.1 **FOR KITS**

Build this circuit and you can turn your car's burglar alarm on and off by pressing the button on a small keyring transmitter Main Features:

 UHF transmitter and receiver on 304MHz Two versions of the handheld transmitter

Transmitter uses a single IC and one transistor · Single button to activate and disable alarm

40 metre transmitter range
 Trinary digital coding with 13,122 codes for security

 Multi-optioned receiver (build it as you want it)
Includes box for transmitter but without button. Also included is receiving board and main chip (MC145028), other parts are not supplied due to the many options available to the constructor.

Cat. KC-5026

\$33.95

## 50 & 100W Mosfet Amplifier 'Brick'

### NOT A KIT - INSTANT POWER!

At last, a good value AUSTRALIAN MADE amplifier module that is rugged, has the tsink built in and is cheap! The 'Jaybrik' as they are called are basically rugged Mosfet power as

manufactured to high standards on fibreglass board with a special DIECAST heatsink. All board components are enclosed in a special conformed coating that ensures that the amp will operate in extreme environmental conditions. If in the unlikely event of a repair being necessary the coating can be picked away and the offending component replaced. The Jaybrik will drive either 4, 8 ohms or 100V line step-up transformers and has unconditional stability. They are virtually bullet proof. They are ideal for professionals who need slave P.A. in a hurry or any Hi Fi or sound reinforcement application. You simply connect filtered DC and a signal to

them and they are guaranteed to go!
So check out the specs. You will find them stunning for a PROFESSIONAL

SPECS:

J-100 100W RMS min into 8Ω, with 45-0-45 3A transformer and 1 x 8000μF/75 filter cap each rail and 6A bridge rect. 45-0-45 is MAS permitted power supply voltage. (This will produce 30V across 8Ω which is 112.5W). Max off load volts!
125, • Distortion; <0.1% max any frequency typ 0.06%, 0.018 @ 1kHz. • Frequency Response: 20 - 20kHz ±0dB (-3dB @ 200kHz) • Sensitivity: 850mV p.p. for rated output • Impedance: 47kΩ • \$/Noise: Over 100 dB W.R.T. 850mV • Stability: Cat. AA-0382

### \$125.00

J-50 50W RMS min into 8Ω, with 25-0-25 2A transformer, 1 x 4700μF/50V filter cap each side and 3A bridge rect. All other specs the same or better than above. (Filter canacitor values must be doubled for use on 4Ω loads) Both units measure 135 x 128 x 74(H)mm including heatsink.





## 30 + 30 Watt Stereo Amp

### INCLUDING PREAMPLIFIER

Fully built and tested with separate bass, treble, balance and volume controls. This superb amp has less than 0.1% distortion. There are inputs for microphone, phono and auxiliary (line) and all power supply components are on board. Just connect a transformer, speakers and a signal - and away you go! Requires 36-38VAC x 2. Size: 186 x 145 x 40(H)mm Cat. AA-0300 \$69.95

Transformer to suit Cat. MM-2010



## Super Hi Fi

### 0.005% DISTORTION

This magnificent preamp measuring 200(W) x 110(D)mm has many features: Phono in (RIAA equalisation within 0.2dB), phono out (to tape), and auxifiary input (as many as you like). Provision for switching "loudness" control in or out as well as the provision for a "tone defeat" switch. Bass, treble AND midrange controls are provided, as well as a midrange a 40 detent click type volume control. Naturally frequency response is flat over the audio spectrum and beyond and the S/N rational figures are outstanding. (Requires ±15V 200mA power supply, a circuit for this is ided). Size: 203 x 106 x 40(H)mm

\$84.95 Cat. AA-0315



A complete preamp and high power amp - with power supply electronics and loud-speaker protector in the one package! All that you need to connect is a power nstormer and a signal sourcel

The AA-0310 features TWO huge heatsinks for the power transistors, bass, treble and mid-range controls, a microphone preamp and mixer pot, balance and volume control. There is a facility for the preamp out (to dub from source to tape) as well as phono out. All in all it's a very well thought out unit. The main board measures 245(W) x 240(D)mm, the heatstinks 130(W) x 75(D) x 70(H)mm are connected to the main amp board by about 150mm of wiring. Power requirments AC 26-32V x 2; DC +35V & +45V 6 amps.

4361 TYPE POWER TRANSFORMER TO SUIT Cat. MM-2015

\$169.95



## **Audio Level** Meter Assembly

This meter enables you to display power levels from -30dB to +5dB. The meter operates directly from the output of your amplifier i.e. from the speaker leads. It does not consume any amplifier power. The level meter is powered by any voltage between the range 3-20 volts so it is ideal for 12V auto use.

Ten LEDs are provided for each channel, the first 4 LEDs in each channel are gi

(-30 to -5dB), the next two are yellow (-1 to 0dB) and the next three are red (+1dB to +5dB) a peak yellow LED is also used to indicate an overload condition. The meter can be calibrated to operate on amplifiers from 1 - 200 watts! A circuit for mains power supply is included. Size: 160 x 56 x 20(H)mm. \$39.50 Cat. AA-0326



### When is a kit not a kit? When it's a mini module!

Jaycar mini modules are not kits under normal definition, Each module is actually built, tested and guaranteed. You still have to connect them to power supplies, signal sources, etc., however, they are still kits and therefore fun to work with

## **Amplifier**

### AMPLIFY YOUR WALKMANI

This little amplifier will provide up to 6 watts into 4 ohms from a 15V pov supply\*. The mighty midget measures 50mm square and has an onboard volume control. Facilities are provided to accept high or low impedance inputs, i.e. 'low headphone output of cassette deck, 'Walkman' type unit, etc., and

'high' for standard line level signal sources such as tuners, VCR's, etc. (Regard as 'AUX'). Output is short circuit protected. A copper heatsink fin must be

soldered to the top of the IC to achieve this. Size 50x50x24/H/mm SPECIFICATIONS Power Out 6W (max) into 4

Input Sensitivity 100mV 0.3% Gain at 6V 38dB Power Supply Cat. AA-0340 4 - 16V @ 1-2A

\$15.95



## Mic Preamp

This unit features a high slew rate on-amp type gain block 5% RIAA equalisation capacitors and small size 70(W) x 60(D)mm, It will bring up a magnetic phono cartridge o dynamic microphone to line level with very low distortion. Power supply circuit diagrams included. wer supply 18-22V AC x 2; +30V DC Size: 72 x 60 x 20/H) mm



## Infra Red Remote System

The system comprises two basic components, the handheld trans and the receiver. The handheld transmitter is supplied in an attract plastic case and is powered by a 9V battery, it has a range of 10 metres, approximately. The receiver consists of a circuit board measuring 110(L) x 55(W)mm and requires 9-12VDC. Both transmitter and receiver use a rietary Hitachi encoder/decoder IC set to preclude false triggering by daylight, sparks, flashes, etc. The receiver output is by relay with N.O. or N.C. output. The relay is NOT 240V AC mains rated but will switch considerable DC loads i.e. 5 am (registive) at 12-24V or up to 100V AC An on-board switch configures the unit to either operate only while the transmitter switch is held 'on' or alternatively in latch mode, i.e. press transmit button and switch 'on', press again to switch off. P.S. It also works as an event counter! Size Transmitter 140 v 69 v 31/L/imm Size Receiver 107 x 57 x 20(H)mm

Cat AA-0346

\$52.95





intery shown for scale)

### TURN YOUR SURPLUS STOCK INTO CASH!! Jaycar will purchase your surplus stocks

of components and equipment. We are continually on the lookout for sources of prime quality merchandise. CALL GARY

JOHNSTON OR BRUCE ROUTLEY NOW ON (02) 747 2022

## Stereo oudspeaker.

An absolute must for all high power amplifiers. If anything goes wrong with a high power amp that is OCL\* (i.e. doe not have a large coupling capacitor between the final output stage and the speakers) a very high power source of DC can present itself directly across the voice coils of your expensive speakers destroying them probably before a fuse blows. The AA-0320 measuring 85(W) x 55(D) x 35(H)mm draws very little current at 12V DC.

(A circuit showing how to connect it inside an existing amp is shown as we as a separate power supply). The protector has a 3 second de-thump turn on delay and a DC fault sense circuit The protector relay is massive and will not offer any significantly voltage drop in even the highest power amps. Cheap

insurance Output capacitor-less. The enormous bulk of Hi FI and PA amps are now built this way. Power supply DC 12-16V. Size: 90 x 55 x 23(H)mn Cat. AA-0320

\$27.95



A six transistor 1/2 watt amp for the cost of two hamburgers! It has a two transistor tape preamp which is NAB equalised and a 4 transistor power amp It has facilities to take line level inputs. The (irregularly shaped) board measures roughly 110(L) x 48(W)mm Fach amp comes with complete hematic and connection diagram. (2 required for stereo) \$3.95 Cat. AA-0290

# 10+ \$3.50 ea

This compact 70(L) x 45(W)mm switch will detect a sharp sound and latch a relay with N.O. and N.C. output, it runs from 9-12 volts and has adjustable sound level sensitivity. Size: 73 x 47 x



# Switch

This controller uses a Cadmiu Sulphide (CdS) cell to detect an ambient light level the sensitivity is adjustable. When the level of light reaches a certain value the relay /with N.O. or N.C. outputs\ switches on, it remains on until the light level falls below a predetermined value The relay will, switch up to 200 watte (resistive) but is not mains rated. ideal as an event counter. Power supply 9V. Size: 67 x 31 x 17(H)mm Cat. AA-0344 \$10.95



## Solar **Powered** Experiments

This experimenters kit enables the enquirer to verify many of the fundamental physical aspects of solar energy for him or herself. The experiments range from the very basic to the very challenging. Some require considerable incenuity and resourcefulness. 150 experiments include: sola furnace, stroboscope, electroplating,

electronic thermometer, solar nowared fan etc Components supplied include: large solar cell, motor, sensitive meter movement, thermometer, parabolic reflector and dozens of other parts. (Does not require batteries) Supplied in attractive gift b

measuring 410(W) x 305(D) x 85(H)mm. Age 10+ Cat. KJ-6692

\$39.95



MELBOURNE - CITY 03 663 2030

The newest edition to our sp

Nom Impedance Max Power Freg. Range SPL Flux Density Magnet Size Magnet Weight

Net Weight

Cat CT-2000

8 ohms +15% 75 watte 3,000 to 16,000Hz 01 54B +24B/W 7,200 Gauss dia 45 x dia 22 x 8mm

47.4 grams (1.67 gz) 170 grams (6 oz) Dim: A 106, B 90, C 72mm \$9.95



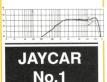
The D025N25 is a brilliant tweeter. It's probably the cleanest sounding tweeter we sell. It handles

enormous amounts of power and has a very smooth Power Handling Freq. Response Resonant Freq. Impedance

150 watts RMS system 3,000 - 30,000Hz 1,200Hz 8 ohm 91dB/1 metre 13,500 Gauss

Flux Density Weight 610 gra Dim: A 120, B 108, C 96mm 610 grams \$36.50 Cat. CT-2018





No.1 **FOR** SPEAKERS

## **Foster Horn**

This tweeter is brilliant, it is very bright with a crisp sound.
Power Handling

100 watts RMS system 5,000 - 40,000Hz Freq. Response SPI

Cat CT-2016

Flux Density 11 500 Gauss Net Weight 490 Dim: A 97. B 85. C 65mm 490 grams

\$32.50



## **Philips Dome**

Philips best tweeter. Exposed textile dome for superior

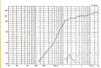
nse and incredibly wide dispersion. SPECIFICATIONS 240 gram 100 watts

Magnet System Power Freq. Range Resonance Voice Coil

750 - 229 Hz 1250Hz Dim: A 101, B 108, C 85mm Cat. CT-2012

\$26.50





## Vifa D19

19mm dome tweeter with polymer diaphragm. Very Ferrofluid cooled voice coil ensures high power

handling and perfect damping. Suited for any quality 2, 3 and 4 way system with power handling up to 100 watts SPECIFICATIONS

Nominal Impedance Frequency Range 2.5 - 20kHz Free Air Resonance 1700Hz 89dB 1 watt @ 1 Sensitivity

5000Hz, 12dB/oct) Voice Coil Diameter 10mm 6.2 ohms Voice Coil Resistance Moving Mass (incl. air) 0.2 grams Weight Dim: A 97, C 75 0.28 kg 0

90 watte /fo:

Cat. CT-2019 \$55.00

Naminal Power



25mm dome tweeter with polymer diaphragm. Larger and more powerful version of the DT19TD. Smooth and detailed performance with low colouration, Ferrofluid cooled voice coil makes this

tweeter suited for high powered 2, 3 and 4 way systems up to 150 watts RMS. Nominal Impedance 6 ohms 2 - 24kHz

1500Hz

3.2 watts

an water

25mm

0.53 kg

2mm 4.7 ohms

90dB 1 watt @ 1

Frequency Range Free Air Resonance Operating Power Sensitivity Nominal Power

Voice Coil Diameter Air Gap Height Voice Coll Resistance Moving Mass Weight Dim: A 103, B 95, C 75mm

Cat. CT-2020

\$74.00



Dimensions of speakers: A From one side to the other B Mounting holes (diagonal) C Cut out - in mm

**GORE HILL 439 4799** 

# Tweeters

3\* DIRECT RADIATING TWEETER Looks like a normal 3\* cone tweeter, except it doesn't need a crossover Ideal for Hi Fi systems in the home or

car sound. Dim: A 84, B 75, C 63mm

Cat. CT-1906 \$9.95



very much like the 1005A (CT-1910) but handles 75 watts rms instead of 100 watts rms. SPL 96dB. Replaces those Asian copies with the original for less money. No crossove required Dim: A 85. B 100. C 75mm

Cat. CT-1908

\$14.95



Over 100 watts rms, frequency 4 -30kHz. No crossover required Especially suited for Hi Fi Dim: A 100, B 85, C 70mm

Cat. CT-1914 \$18.95



90mm SUPER HORN

Perfect for use where long throw is

use. Frequency response 3.8 - 28kHz ±3dB, maximum input 25V rms (100W

Cat CT 1010

amp power), no crossover required. Dim: A 85, B 100, C 76mm WAS \$26.50

\$19.95



50 x 125mm This exponential horn has a full 90° horizontal dispersion annie With harmonic distortion of less than 1%, this unit is ideal for Hi Fi use. Frequency range 3 - 30kHz ±3dB, maximum input 25V rms, no crossover required. Dim: A 145 x 67. R 133 x 50. C 122 x

WAS \$26.50 Cat. CT-2026 \$22.95



50 x 150mm Rectangular Widest frequency range of the piezo horns, otherwise similar to the CT-2026 No crossover required. Cat. CT-1912 WAS \$34.50

\$29.95



## Foster 4"

is ideal where high quality is needed, but where space is at a premium.

SPECIFICATIONS Impedance Power Max Power Resonant Fred Freq. Range

Flux Density Dim: A 126, B 115, Cat. CE-2312

90 +2dB/W 10 000 Gauss C 102mm

\$22.95

2 watte

10 watts

90 ±15U1



## Twincone

od quality 6" dual cone speaker for reniacements on small hoves. Ecom surround with black cone and rubber mounting seal. 60 - 15kHz

89dB/1mt

Freq. Resp. Sensitivity Impedance Magnet Weight

8 ohms 10 watts rms im: A 166, B 157, C 145mm Cat. CE-2320 \$16.95



10+ \$15.95 ea



This speaker has high efficiency and is ideal for extension speaker and low level sound reinforcement use. The heavy magnet and dual cone results in a wide frequency response. Power handling 10 watts, 200mm diameter, frequency range 60 - 18kHz Dim: A 205, B 197, C 187mm Cat. CE-2325

10 or more

\$13.50 each

\$13.95

ALL SPEAKER MEASUREMENTS: A From one side to the other B Mounting holes - diagonal C Cutout

The 8JX is a 8" twin cone speaker suitable for medium power handling applications. SPECIFICATIONS Power Handling

40 watte DMC esonant Freq. 44Hz fo - 12kHz 93dB Fred Pende Sensitivity Voice Coll Dia 25mm Magnet Weight 190g Dim: A 210, B 200, C 190mm Cat. CE-2333

\$31.50 ea



The 8WR is a high fidelity wide range 8" driver utilising a 25mm diameter long throw voice coil wound on an ninium former and a high compliance suspension with a polyurethane foam roll surround. An auxiliary cone has been fitted to extend the high frequency response

by over 1 oct SPECIFICATIONS Power Handling 65 watts RMS Resonant Fred 43Hz Freq. Range fo - 12kHz Voice Coll Dia. Magnet Weight Ome

Qes

Oto Vas

96dB 25mm 350 grams 0.66 63.61 Dim: A 210, B 200, C 190mm

Cat. CE-2338 \$36.50 ea



HURSTVILLE 570 7000

## Polypropylene

A great new midrange to match our range of poly A great new midrange to mailin our range of po-cone woofers. Clear cone with foam surround. Fred Response 200 - 8 000H 500 Hz 90dR/1w

SPL Dim: A 130. B 120. C 110mm





This great dome midrange as used in the ETI4000 speaker kits is now available again Freq. Response 550 - 5kHz

Resonant Freq. 360Hz 100 watts RMS (system) Power Handling Flux Density 0.9 Loudspeaker Mass 1kg 0.9 T

Textile dome and an acoustically sealed pot. Dim: A 133, B 160, C 134mm Cet CM-2088





Dimension of speakers: A from one side to the other B Mounting holes (diagonal) C Cut out - in mm

## Dome Midrange

Unusual 3\* dome midrange with coated soft textile disphragm. Very smooth and detailed performance with ensures high power handling and superb transient response. Requires a 1.5 litre sealed and damped enclosure. Optimal midrange in 3 and 4 way system with a power handling up to 150 watts rms

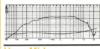
Nominal Impedance Frequency Range Free Air Resonance Sensitivity Nominal Power

Voice Coil Diameter Moving Mass (incl. air) Dim: A 150, B 133, C 112mm Cat. CM-2086

0 ohme 350 - 5kHz 300Hz 91dB 1 watt @ 1 metre 80 watts (fo 500Hz 12dB (not) 7.2 ohme 3.6 grams 0.65 kg

\$129.00





These all metal horn speakers will add life to your disco sound system or band speakers Use one of the piezo tweeters for the top Rated at 30 watts rms, in a system they will handle over 100 watts rms.

### TWO CONVENIENT SIZES 4" x 101/,"

Impedance Rating 30 watts rms Response 1.5kHz - 14kHz 102 x 268 x 192mm

Cat. CM-2082 \$44.50

3" x 7" 8 ohms

Rating 30 watts rms Response 2kHz - 15kHz 183 x 75 x 163n Dim: A 175 x 75. B 2 x 83 x 65. C 150 x 52mm Cat. CM-2084





## 12" Guitar Speaker

Finally available, our updated guitar speaker with extended frequency response. Especially suited for not only Bass guilar but Rythm and Lead as well.

Resonant Freq. 60Hz (was 80Hz) Impedance 9 ohm Freq. Response 60 - 5,000Hz (was 80-4kHz) Power Handling 100 watts RMS

Mannet Weigh 40nz Net Weight 3610g (was 3520g) Sensitivity is the price - NO INCREASE But the best n Cat. CG-2380



### LOW COST SPEAKER PROTECTION

REF: EA JULY 1986
The very latest in speaker protection, Polyswitch protectors are based on conductive polymers and act like recettable solid state circuit breakers. When the operating current of the protector is exceeded the interior of the device partially melts, which suddenly increases the volume which increases the resistance drastically. This in turn reduces the current. The device stays in this state while the current is maintained because its temperature is elevated Once the current is removed, the device re-establishes itself almost immediately, so that the low resistance value is restored. Two of these devices are available from Jaycar. Simply connect them in series with the speakers you wish to protect. RN3410 is suitable for protection of tweeters in

systems up to 100 watts. It's rated at 50 volt and 0.5 amp.Nominal stance is 0.4 ohr

## \$8.50 ea 10+\$8.00 each

RN3415 will protect midrange and woofers up to 100 watts. Rated at 50 volts and 1.15 amps. Nominal resistance is 0.12 ohms.

## \$8.95 ea 10+\$8.50 each

RN3418 is rated at 50 volts at 2.45 arms. Nominal resistance is 0.039 ohms. As used in 100 watt amplifier module Cat. KC-5019 from Silicon Chip Dec. 1987 Cat. RN-3418

\$10.95 ea 10+ \$10.50 each



## Polypropylene

Power Handling 40W rms Cat. CW-2108 8 ohm Freq. Response 33.5 - 3000Hz \$34.50 Resonant Freq. 33.5Hz Sensitivity 87dB Voice Col 25mn Nett Weight 900 gr Dim: A 165, B 157 2.724

## White Cone

Best looking and sounding 8" woofer we've seen for the price. White cone, large magnet 10oz, roll

surround. Power Handling 30 watte rme Resonant Freq 45Hz Fren Response

Impedance Sensitivity 96dB Dim: A 211, B 200, C 185mm Cat. CW-2111

45 - 5000Hz 8 ohm \$26.95



The 8W Mk 6 is a high fidelity woofer utilising a 25mm diameter long throw voice coil wound on an aluminium former and a high compliance suspension with a polyurethane foam roll surround, resulting in excellent linearity at high power. 65 watts rms

Power Handling Resonant Freq. Freq. range Sensitivit Voice Coil Dia. Magnet Weight Qms Cos Qto

Vos

43Hz to - 5khz 96dB 350 grams \$36.50 0.66

Dim: A 205, B 195, C 183mm



Dimensions of speakers: A From one side to the other

B Mounting holes (diagonal) C Cut out

in mm

## 8" Polypropylene

Power handling Resonant Freg. Sensitivity Effective Freq. Electromagnetic Q

35Hz 3E 4000Hs QES 0.35 Peak Cone Excusion Dim: A 240, B 220, C 180mm 2.5mm Cat. CW-2114

8 ohms 88dB 1 metre 1 watt

\$49.95



## Philips 8"

ideal for small sealed enclosures. Maximum enclosure

over frequency 2,500Hz. 50 - 4kHz Freg. Response Resonant Freq. 39Hz Power Handling 50 watts rms Flux Density Total Moving Mass 17.5 g

Compliance Spkr. Unmounted 1.02mm/N Voice Coil Height 10mm Cone Diameter 25mm Magnet Mass

Mass of Spoaker 1.15kg aper cone and polyester sum Dim: A 205, B 195, C 185mm Cat. CW-2115



\$49.50



As used in the Electronics Australia su Size 10" (250mm) Cast Frame QT = 0.39, VAS = 631 Power Handling 100 watts rms Free Air Resonance 32Hz +1Hz

Voice Coil Dia Magnet 3 kg (6.1 Dim: A 268, B 250, C 238mm 3 kg (6.6 lb) Cat. CW-2119

\$119.50



## 8/30 Replacement

If you own a pair of 8/30 woofers, you can now easily update them. Your old 8/30's handle 30 watts rms, the new 8MV's handle 120 watts rms. No need to him new cabinets. 8MV's mounts in the same hole, otherwise it's a high quality, high power 8" woofer for most

applications. Power Handling 120 watts rms Resonant Freq. Freq. Range fo - 4kHz Sensitivity Voice Coil Dia OE4D 38mm Magnet Weight 1 72

510 grams Qma Qes 0.47 \$99.50 ea Ote 0.37 Van 801 Dim: A 220. B 225. C 210mm



8\* Polycone woofer with large magnet and discast

magnesium basket for highest rigidity.
Can be used in 25 - 45 litre bass reflex enclosures. Ideal in both 2 and 3 way systems. 70 watts power handling capacity. Nominal Impedance

Freq. Range Free Air Resonar Operating Power Sensitivity Nominal Power Voice Coil Dismeter Voice Coil Resistance Moving Mass Thiele/Small Peremetere

Weight 1.65 kg Dim: A 215. B 207. C 182mm Cat. CW-2132

8 ohms 26 - 4kHz 33Hz 2.5 watte 92dB 1 watt @ 1 metre 60 watts 40mm 5.8 ohms 20 grams Qm: 2.4 Qe: 0.41 Ot : 0.35



Vas : 80:1



## 10" Polypropylene

Power Handling 70 watte rme evetem Resonant Freq. 2011 enective Freq. 90dB 1 metre 1 v 30Hz - 4,000Hz Electromagnetic Q OES 0.36 Peak Cone Ex. Dim: A 282 n = 2,5mm 90dB 1 metre 1 watt \$59.50



This 10" Polycone woofer is the largest in the Polycone range. Large magnet, diecast magnesium basket and rubber surround. Designed for 3 way bass reflex

25 - 3kHz

100 watts

5.7 ohms

44 grams

Qm: 3.15 Qe: 0.46

Qt:0.40

1.95 kg

Var : 190-1

\$220.00

40mm

89dB 1 watt @ 1 met 60 watte

25Hz 5 watts

systems with a volume of 50 - 100 litres. 75 watts ower handling capacity. Nominal Impedances ohms Freq. Range Free Air Resonance Operating Power

Cat. CW-2116

Sensitivity Nominal Power Music Power Voice Coil Diameter Voice Coil Resistance Moving Mass (Incl. air) Thiele/Small Parameters

Weight Cat CW-2136

n: A 258, B 252, C 228mm



**JAYCAR** No.1 **FOR SPEAKERS** & **ACCESSORIES** 

## Magnavox 10W-031

The 10W is a 10" high quality, high power, medium priced speaker which is made in Australia, 25mm voice coil wound on aluminium former. Polyurethane foam 75 watts RMS

roll surround. Power Handling Freq. Response Resonant Freq Magnet Weight Sensitivity

Qes

Vac

33Hz - 5.000Hz 33Hz 350 grams 95dB 2.0 0.841 0.04 1561 Cat. CW-2118

\$43.50



## 120 Watt RMS Polypropylene

Power Handling 120 watte RMS Resonant Freq 23Hz mpedance 8 ohm Freq. Response 23 - 2,000Hz 93dB Sensitivity Voice Coil Dia Electromagnetic Q 0.22 1410 gran Weight Dim: A 384, B 375, C 354mi Cat. CW-2131 \$179



12" woofer medium nower low cost, high quality 25mm voice coil wound on aluminium former. P thane foam roll surround.

80 watts RMS Power Handling Freq. Heposnse 30 - 5,000Hz Resonant Freq. 30Hz Magnet Weight 350 grams 96dB Sensitivity 3.76 Qes 0.93

Qto

Cat. CW-2122

\$52.50

Dimensions of speakers: A from one side to the other B Mounting holes (diagonal) C Cut out - in mm

2631

## 12" Woofer Polypropylene

Power Handling Impedence Sensitivity Electromagnetic Q Peak Cone Excursion Dim: A 310. B 293. C 276mm Cat CW-2130

80 watts rms system 8 ohms 25Hz 92dB 1 watt 1 metre 25 - 4,000Hz OES 0 30

\$69.50



The 12MV is a high power high fidelity woofe utilising a 38mm diameter long throw voice coil suspension with a polyurethane foam roll surround, resulting in excellent linearity at very high input

powers Power Handling 150 watts rms Resonant Freq. 19Hz Freq. Range Sensitivity Voice Coil Dia. Magnet Weight Oma

to - 3kHz QRAR 510 grams 3.76 0.00

Qes \$99.50 ea Vee Dim: A 340, B 323, C 280mm Cat. CW-2125





Jaycar has just concluded a deal with a well known AUSTRALIAN MANUFACTURER to produce a high quality but modestly priced range of Polypropylene cone speakers.

The speakers are made according to Jaycar's rigid specifications and will only be available from Jaycar. The range includes woofers sizes 6, 8 & 10" diameter. A matching midrange and tweeter (both overseas made) will also be available.

The speakers have black square metal frames with grey polypropylene cones and dark grey suspension.

We are very proud of these world-class Australian made polypropylene cone speakers.

Impedance 8 ohm Resonant Freq. SPI Freq. Response Oms Qes Oto 22.2 Vas

49Hz 95dB/1 watt @ 0.5 metre 50 watts RMS 80 - 6000Hz 1.73 0.52

\$39.95 Cat. CW-2105



## Woofe

Impedance Resonant Freq. SPL Power Handling Freq. Response Qms

Qes

39Hz 95dB/1 watt @ 0.5 metre 65 watts RMS 50 - 5500Hz 1.89 0.64 0.48

Oto 59.6



## JC-250 10" Woofer

Resonant Freg. Power Handling

Freq. Response Qes Oto Cat. CW-2120

28Hz 97dB/1 watt @ 0.5 metre 75 watts RMS 45 - 4500Hz 254 0.00

\$64.95



## Midrange

Impedance Resonant Freq. Freq. Response Power Handling Cat. CM-2081

700 - 13,000Hz 80 watts RMS system \$19.95



Impedance Resonant Freg. Freq. Respo Power Handling SPL Cat. CT-2005

1000Hz 1000 - 18,000Hz 80 watts RMS system



## **All Purpose** Replacement Speakers

57mm dia

\$2.20 ea 10+ \$1.80 ea



3<sup>1</sup>/<sub>4</sub>" \$5.25 10+ \$5.00 ea Cat. AS-3006



4" \$6.95 10+ \$6.50 ea 100mm dia



5" \$8.95 10+ \$8.50 ea 125mm dia Cat AS-2010



6" \$11.95 10+ \$11.50 ea Cat. AS-3012



## Cat. 45-3014

\$10.95 ea 10+ \$10.00 ea

7° x 5° Cat. AS-3016 \$12.50 ea 10+ \$12.00 ea



## 2 Way

 Crossover frequency 3,500Hz 6dB attenuation • 40 watts RMS



\$9.95 ea

## 2 Way

 Crossover frequency 5,000Hz 6dB attenuation • 40 watts RMS • 8 ohm Cat. CX-2613



\$9.95 ea



 Crossover freque 3,500Hz 12dB atten + 50 watte RMS + 8 ohms Cat. CX-2612



\$13.95 ea

 Crossover frequency 2,000Hz 6dB attenuation 65 watts RMS 8 ohms Cat. CX-2611



\$18.95 ea



- Vifa Crossover AEM 6102 Crossover frequency 2,500Hz
   18dB octave slope · 80 watts RMS
- 8 ohms TILIBROOK DESIGN Cat. CX-2630

### HIGH QUALITY \$178 pair

cies 800Hz 5,000Hz

• 6dB attenuation • 40 watts RMS 8 ohms Cat. CX-2615

\$15.50 ea

**JAYCAR** No.1 **FOR** 

**SPEAKERS** 

ssover frequencies 2.800Hz. 8.000Hz

 12dB atte 50 watts RMS

 8 ohms Cat. CX-2617 \$18.50 ea



 12dB attenuation • 200 watts RMS + 8 ohms Cat. CX-2621

\$69.50 ea



Crossover frequencies 800Hz, 5000Hz 12dB attenuat
 65 watts RMS

Cat. CX-2616

\$28.95 ea



## 3 Way

 Crossover frequencies 600Hz, 3500Hz 12dB attenuation • 80 watts RMS • 8 ohm Cat. CX-2619

\$32.95 ea







· Vifa crossover AEM 6103 Crossover frequencies 500, 4300Hz

 18dB octave slope • 120 watts RMS 8 ohm

TILLBROOK DESIGN Cat. CX-2632

HIGH QUALITY \$238 pair

Innerbond is the ideal substance for lining the insides of speaker cabinets, it has excellent damping properties and is clean and nonirritating, unlike many substitutes Use the besti Comes on a roll approx, 900mm wide. Thickness is Cat. AX-3690

\$5.95 per metre



This tape is ideal for holding grilles on speaker cabinets. One side is glued or stapled to the box and the other to the grille. The grille then 'sticks' to the box. Cornes as a pack of 2 rolls 300mm long. Cat, CF-2763

\$3.95

## Vifa SA-100 2 Way Kit





This exciting new highperformance speaker kit uses VIFA drivers from Denmark. It is an improved version of the original David Tibrook design AEM-8102 speaker kit. A new advanced crossover design with asymetrical crossover slopes and impedance correction circuit gives these speakers an

gives these speakers an unequalled performance with any fully-imported loudspeaker system under \$2,000 a pair. Well over 1800 of the original AEM-6102 speaker systems have now been built in Australia with

been built in Australia with superb resubts. With a saving well in excess of \$1,000 compared to any fully imported loudspeaker system, it is now your amplifier and the rest of your ancillary equipment that sets the limit for your enjoyment of your hi-fi system. The speaker kit consists

your enjoyment of your hi-fi system. The speaker kit consists of the famous 8° polycone woofer with discast chassis and rubber roll surround. The tweeters are The cabinet is supplied in knock-

the legendary D25 tweeter with terro-fluid cooling and polymer disphragms. The cabiner is supplied in knockdown form wereered in beautiful black woodgrain look with silver front ballles, speaker clath, damping material, grid [clips, speaker reminals, screws and ports.

The performance of these speakers is outstanding, Australian HI Fir magazine recently acclaimed: "Well, Mr Tabbook and Soan have containly done best homework. The AEM-6102 is simply support. A very acourate design

The performance of these speakers is outstanding, Australam II I magazine recently accounted. Titlbrook and Soan have certainly done their homework. The AEM-6102 is simply superb. A very and exhibits remarkably low levels of colouration and distortion - across the board". Power Handling 100 water BMS.

SPEAKER KIT

\$651.00 pair

CABINET KIT

\$148.00 pair







## fa SA-130 Way Kit Improved AEM6103

## Vifa SA-130 Way Kit



Improved Activioru
In the past buying high quality
Ioudspeakers has necessitated
selecting a fully imported product. Wi

selecting a fully imported product. With the drastic devaluation of the Australian dollar these imported products have become out of the reach of most Hi Fi and electronic enthusiasts.

With the infloduction of VIFA speakers in kit form 3 years age. It has been proved that you now can build same quality loutispeakers as the expensive imported models (which might very wer bousing) VIFA orthost surprise). The busing VIFA orthost surprise). The second was allowed to be suffered to be suffer

imported speakers in the 2500-3000 dollar bracket. The tight deepbase is produced by the powerful 10° Polycone wooler P25W0, which has diecast magnesium basket,

powerful 10° Polycone wooler P25W0, which has discast magnesium basket, aluminium voicecul former and nubber roll surround. The new improved 3° dome midrange D75MX takes care of the critical midrange area, giving these speakers a most accurate and neutral performance, especially not

with the highest fidelity.

A classic among dometweeters is the brilliant 19mm ferro-fluid cooled D19TD. Have a close look at all the improted English and European loudspeakers and you will find this little star in almost half of them. Not without reason its polymer disphragm provises extremely clear and well balanced trable.

The new VIFA SA 190 opmodel is available in kidtom, where with or without flat-pack cabinets, finished in nice

blackwood grain with silver battle, Power handling 130 watts RMS.

SPEAKER KIT

CABINET KIT

Cal CB 2467

\$951.00 pair

\$248.00 pair

## SYDNEY-CITY 267 1614

## Vifa SA-70 2 Way Kit

## Improved EA 60/60

If your budget won't run to the \$800-\$1,000 needed for an equivalent pair of fully-imported loudspeakers, these speakers are the ones to go for. The new SA-70 is an improved version of the original EA-6060 speaker kits released a year and a half ago in Electronics Australia magazine.

2,500 of these speakers have been built since their release and they have become one of the most popular bookshelf speakers in Australia. Everybody can build these speakers - no carpentry skill or electronics certificate is needed.

electronics certificate is needed. Some extracts from EA magazine; "The tweeters are exotic little beasties" (Editor EA magazine). It is the all-time popular 19mm soft dome tweeter with ferrofluid damped voice cell and very smooth frequency

fluid damped voice coll and very smooth frequency response. The woofers are a new improved 8\* sandwich-coated woofer with foam surround.

woofer with fearm surround. A new crossover design extracts all the performance out of these exoteric Danish loudspeaker drivers. The power handing is increased to 70 watts RMS per channel, and in an avarage size lounger of them to per channel, and in an avarage size lounger of the performance all kines of music with selections all kines of music with sollow the usual principle of the kines of the size of the s

## SPEAKERS AND CROSSOVERS

Cat. CS-2471

\$379

## CABINETS TO SUIT

Cat. CS-2472

\$120 TOTAL \$499.00



LOOKOUT FOR THE NEW VIFA SA-50 2 WAY SPEAKER KIT INCORPORATING 5" BASS/ MIDRANGE AND A DOME TWEETER \$399 with cabinets

Call into any of our showrooms (not Concord) for an Audition

## Speaker Controller

Enables up to 5 pairs of stereo speakers to be switched on or off in any combination - rated at 50 watts continuous per channel. Stereo headphone socket available for private listening. Constant minimum load circuit protects ampifier regardless of how many speakers are connected. Dual circuit breaker protection. Cat. AC-1678



## **Deluxe Speaker Mounting Bracket**



The solution as to where to put your bookshell speakers. These versatile brackets are mounted on the well which means you can optomise your sound pleasure by placing your mini-midi speakers exactly in the position you want them. The swivel mount allows correct spatial positioning. Each bracket will handle up to 16kg (35ib).

FEATURES:

- 180° side/side swive +0 - 15° tilt up/down
- Denth up to 254mm / 10" Finished in black acrylic Cat. AA-2060

\$79 pair



If you are after a rugged heavy duty extension speaker, then this is the one. It will handle up to 25 watts maximum and the impedance is 8 ohms. Speaker is a 3" foam suspension type and has a metal grille over the front to stop probing fingers, etc.
Supplied complete with metal mounting bracket and 5 metres cable terminated

with a 3.5mm plug. Cat. AS-3185 \$22.95



This is a special non-hardening sealing compound, ideal for getting real airtight seals between drivers and cabinets. This is vital with the acoustic suspension designs popular today. 2 metre roll.

Cat. CF-2762

\$2.95

## 7-Wav Speaker

This stereo speaker switch will enable you to select any combination of three pairs of speakers. Comes complete with wall plate. Has easy to connect screw terminals. Full instructions upplied. Separate switch for each pair of speakers. Not the chean rotary switch

type. Cat. AC-1676 \$24.95



## Midrange & Tweeter evel Controls

These units are designed for midrange and tweeter controls on multiway speaker systems. They are suitable for systems up to 80 watts power handling capacity. They present a constant 8 ohm impedance to the load. and so do not disturb the crossover points. Both units come with fully sepled mounting plates and are labelled 'mid and 'high' respectively.

MIDRANGE Cat. AC-1680 TWEETER Cat. AC-1682

\$7.95 ea



These function as a volume control directly at the speaker. They are similar to regular pots, but differ in that they present a constant load to the amplifier or crossover. (Important to maintain crossover performance)

## 00 Watt Mono

This really is a high power unit ideal for PA applications or for remote speakers where a high powered amplifier is being used. Constant impedance design is suited to 8 ohm systems. Has heavy ceramic body and wirewound element Supplied with metal silk screened facia

Cal. AC-1672 \$18.50 ea



grille cloth is ideal for protecting those expensive drivers - but making sure all of the sound gets through. Comes in a 1.5 x 1 metre roll. Black in colour Cat. CF-2752

\$12.50 metre



lave you ever wondered how sive speaker grilles are held in expensive speaker grilles are nero in place? They use a plastic clip-in plug and socket. Now you can have ther on your speakers instead of Velcro

SET OF 4 \$3.95 Cat. CF-2761

This grille suits the CE-2325 8\* speaker, Ideal for PA/background music systems, extension speakers,

etc. White in colour

Cat. AX-3560

\$3.95 10+ \$3.75 ea



Great for night owls, don't disturb others around you. Slip it under the pillow and learn other languages, motivation courses, etc while you are sleeping. Cat. AS-3050





## **US** telephone Type Leads/ Connectors

### Extension Cable

US plug to US plug. Length 5 metres. Cat. YT-6040 \$8.95



### Exension Cable

US plug to US socket, Length 5 metres. Cat. YT-6046 \$9.95



### Extension Cable

Australian socket to US plug. Length 5 metres. \$12.95



## Line Cable

US plug one end to bare wires. Ideal for any application and solves crimping cable to US plug which is very difficult without special crimper. Length 2.5 metres. Cat. YT-6042 \$4.95



## Double Adaptor

Cat. YT-6056 \$6.95



## **Curly Cord**

US plug to US plug. Replacement handset cord. Length 4.5 metres Cat. YT-6048



## Wall Socket

Standard US type wall socket Cat. YT-6058 \$4.95



## Plug Adaptor

Australian plug to US socket Cat. YT-6054 \$8.95



# Telephone

5 metre extension

INCLUDES DOUBLE ADAPTOR \$10.95

15 metre extension Suits all standard

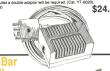
\$13.95

## Telphone socket double adaptor

\$7.50 N W. O

## Telephone

This compact unit is supplied with 10 metres of cord fitted with a standard Tele plug. Simply plug it into a wall outlet and it wilt ring at the same time as your telephone. A LED is fitted as well which will flash. (Note: If you only have one telephone outlet a double adaptor will be required. (Cat. YT-6020). \$24.95



The STD Bar for your telephone is finally available. It appeared in our last catalogue but we were afraid to release it due to to the safety aspect of 000 emergency number.
We have solved this problem, and the

new model will allow emergency calls through on the 000 number, but will stop standard STD calls (except Tasmania). Cat. YT-6540

\$34.95



## Telephone

This is an exceptionally good diverter. It enables you to divert an incoming call on one line to another location. Many incoming callers do not like leaving messages on a machine and with a divertor the caller will not know that your office is

The YT-6510 will divert either line (2 lines required) or will divert one incoming line only. It can monitor incoming calls if you are there! The YT-6510 will redal at either 10 (standard) or 20 pulses/sec. If you are redailing to a 3 digit exchange (i.e. a 7 digit phone number) you can confidently set the diverter to redail at 20pps to save

This diverter will work with either tone or pulse dialling systems and has other

This prefer will work with either tone or purse distalling systems and has other features that only relate to tone dialling.

While the YT-6510 is not Telecom approved, it is a very well made product. A 9V

AC adaptor is provided. Excellent audio quality

 Time limit set on diverted calls \$199 Cat. YT-6510

SYDNEY-CITY 267 1614

## Cordless Telephone

The fabulous Portable Telephone that you can take anywhere around the house, garden or swimming pool, YT-7065 is microprocessor controlled with a range of up to 250 metres and absolute clarity.

No other cordless phone has the quality, security and the features at anywhere near the affordable price of this phone. Tired of being tied to the phone when you have better things to do? Wouldn't it be wonderful if you could take the phone to where you want to be around the home, office or factory. You could be getting on with other things instead of worrying about missing a call! Now you can with the new generation

## cordless phone

- Features: · Simple to use and easy to install - just plug it in
- · Operating range up to 250 metres (800ft)
- · Security code system with 16.348 combinations
- Call function at base unit to alert handset · Pulse dialling with audible tone feedback at the touch

OI a key		
SPECIFICATIO	NS:	
Handset power	DC 4.8V rechargeable	
Rase unit 12V /	AC (Adaptor supplied)	
Base Unit	Channel 3	Channel 2
RX Sens	1uV	1uV
RX Freq.	39.875MHz	39.825MHz
S/Noise	50dB	50dB
TX Power	Max permitted	Max permitted
TX Freq.	30.175MHz	30.125MHz
Handset	Channel 3	Channel 2
RX Sens	1uV	1uV
RX Freq.	30.175MHz	30.125MHz
S/Noise	45dB	45dB
TX Power	Max permitted	Max permitted
TX Freq.	39.875MHz	39.825MHz

TX Freq. \$199 Cat. YT-7065



## **Digital Auto Tune Up Tester**

Not only will this measure RPM & Dwell (on 8, 6, 5, & 4 cylinder cars) it m AC volts, DC volts, points resistance, diode check and even has an ohms rangel But its best feature is the nifty little tacho adaptor supplied, it is a clamp-type unit with coiled lead. Simply connect the inductive pick-up to the coil HT lead and the RPMs are displayed

The QM-1576 is moulded in dark green high impact plastic with in-built tilting bail.

Cylinder	Range .	Resolution		Overload Circuit Protection
4 & 5 6 8	300 - 5200rpm 200 - 4000rpm 200 - 3000rpm	10 rpm	1.2% ± 10 rpm	200V DC/AC RMS (within 10 secs)
DWELL A	NGLE			
Cylinder	Range	Resolution		Overload Circuit Protection
4 & 5 6 8	0- 90*	0.1°		250V DC/AC RMS (within 20 secs)
AC VOLT	AGE		ED ON 60Hz	
Range	Accuracy	Resolution	Input Resistance	e Overload Circuit Protection
200V 500V	1.2% ±1d	100mV 1V	500k	DC ±600V AC 500V RMS

General Specifications: - Display 0.5° (13mm) LCD (Liquid Crystal Display) max indication 1999 or -1999 - Polarity Bi-polar by automatic ewitching, \* \* Indicates reverse polarity\* Zora adjustment automatic - Over Input indicated by \* "or \* 1" - Sampling time 0.4 sec - Power supply 9V battery • Consumption 32mW • Size 150 × 89 x 35mm • Weight 230 grams

Supplied with comprehensive manual, multimeter type test leads and clamp type

inductive pick-up tacho adaptor. Cat. OM-1573 \$139.50

## Digital L-C Meter

This direct import product is outstanding value for money. It is moulded in a high impact dark grey plastic case with inbuilt tilting bail, includes spare fuse (built-in) and colour coded panel. A very comprehensive instruction manual is provided.

CAPACI	TANCE		
Range	Resolution	Test Freq.	Voltage across C under test
2nF	1pF	1kHz	150mV
20nF	10pF	1kHz	150mV
200nF	100pF	1kHz	150mV
2uF	1nF	1kHz	150mV
20uF	10nF	100Hz	150mV
200uF	100nF	100Hz	15mV
INDUCT	ANCE		
Range	Resolution	Test Freq.	Current thru H under test
2mH	1uH	1kHz	150uA
20mH	10uH	1kHz	150uA
200mH	100uH	1kHz	150uA
2H	1mH	1kHz	150uA
20H	10mH	100Hz	15uA

Specifications: • Accuracy (23°C±2°C) Capacitance <0.5uF - ±(1%+1d), >0.5uF 2/2%-10), Inductance <0.5uH - ±(2%-10), >0.5uH - ±(5%-10). \* Temperature coefficient capacitance <0.5uF - 0.1%\*\*C, >0.5uF - 0.2%\*\*C. Inductance <0.5H - 0.5%\*\*C > 7.5uF - 0.2%\*\*C. S.FP . inductance <0.5H - 0.5%\*\*C > 7.5uF - 0.2%\*\*C > 7.5uF - 0.2%\* -Clouder Over range - display shows "1" - Sampling time 0.4 secs - Prower supply 9V battery 11mA (batt not supplied) - Size 180 x 85 x 35mm - Weight 320 grams Aligator clip test probes supplied. Auto zero except on lowest capacitance range



MELBOURNE - CITY 03 663 2030

## Low Cost Test Gear for 1988

Jaycar is proud to announce a range of high quality direct import test equipment. This equipment was finally chosen because of its excellent value for money. We think that you will agree!

## **Audio Generator**

This unit matches the QT-2312 RF generator in appearance, it too has a sturdy metal cabinet with carrying handle and large readout scale. The QT-2310 has the following faetures:

- Trigin Indiquency setsoning: within ±1dB
- Sine wave signal output: more than 8V rms
- Equipped with synchronised input terminal of signals enabling high power output signals to be accurately controlled by small signals.

±1dB (1kHz)

15V p-p max 0.5uS

SPECIFICATIONS: Frequency Range: Output Impedance SINE WAVE OUTPUT Range Output Voltage: Output Distortion:

10Hz - 1MHz 5 decade bands ±3% +2Hz 600 ohms, unbalanced High, Low (-40dB) and fine adjuster

10Hz - 1MHz 8V rms, max Less than 0.05% 400Hz - 20kHz Less than 0.3% 20Hz - 200kHz

Less than 0.05% 500Hz - 50kHz Less than 0.5% 50Hz - 500kHz 20114 - 201114

SQUARE WAVE OUTPUT Range: Output Voltage: Rise Time:

SYNCHRONISATION Range: Input Impedance: Maxmum Input: Power Requirement: Dimensions: Weight:

Accessories

±3% of oscillator frequency per Vrms Approx 10M ohm AC 115/230V, ±10%, 50/60Hz, 3VA

150(H) x 250(W) x 130(D)mm Approx 2.5kg \$239 Test lead 1, ground lead 1





## Digital 400 Amp AC Clampmeter

This is a direct import 1/2" LCD clampmeter with rugged hard vinyl carry case at an rins a direct interest in a care and interest with regged nate winn carry case at an exceptionally low price - especially when you realise it has digital hold! (You can make a measurement in a dark and confined location, hold the data on the display until you can comfortably read it.

The unit is overload protected, has a carrying lanyard and is moulded in a high Impact dark grey plastic case. SPECIFICATIONS AC Current

204 (0.01A resolution) 400A (1A resolution) 1000A overload (1 minute)

2000 ohms (1 ohm resolution) - Didge check

 AC Volts 750 (1V resolution) DC Volts

s 200mV (for plug-in modules such as Digital Temperature adantor 20V (0.01V resolution)

Data hold available on all of the al ncludes multimeter style probes). Size: 225(H) x 75(W) x 46(D)mm Cat. OM-1570

\$139.95



## Signal Generator

This fully solid state product is capable of generating stable FR from 100kHz to 150MHz. It is designed as both a bench and portable instrument.

It also features an internal 1kHz oscillator to modulate the RF carrier External ation to the RF output is provided as well.

The QT-2132 is supplied in a sturdy metal cabinet, with carrying handle and large easy to read scaled readout nanel It is ideal for checking and aligning the front ends of AM, FM and TV sets.

> SPECIFICATIONS Frequency Range:

100kHz - 300kHz 300kHz - 1000kHz 1MHz - 3 2MHz 3.0MHz - 10MHz 10MHz - 35MHz 32MHz - 150MHz

Up to 450MHz on 3rd harmonics +3% Frequency Accuracy: RF Output: 100mV rms, approx (up to 35MHz) Output Control: High-Low switch and fine adjuster INT, 1kHz (AM) 30% approx.

Modulation: Audio Output:

Crystal Oscillator: Power Requirements: Dimensions: Weight: Cat. QT-2312

1V rms input 1kHz, MIN. 1V rms (fixed) - 15MHz crystal in type HC-6u holder (not included) AC 115/230V. 50/60Hz. approx 3VA

150(H) x 250(W) x 130(D)mm Aprox. 2.5kg

EXT. 50Hz - 20kHz, at less than

\$199



#### AC Millivoltmeter

The model QT-2320 is a sideband Millivolt Meter for measuring AC voltages from 0.3mV to 100V in 12 ranges with bandwidth of 5Hz to 1MHz. Each range shares 10 dB. The effective sensitivity at 0.3mV range is 30uV. This voltmeter is equippe with three colour scales for easy visual distinction, namley Volt, dB and dBm. The millivoltimeter also has a FET input with 10M ohm input impedance so circuit loading is negligible. Finally once again supplied in a sturdy metal case with carrying handle.

SPECIFICATIONS

Voltage Range 0.3, 1, 3, 10, 30, 100, 100V 0.3, 1, 3, 10, 30, 100V, in 12 ranges -70, -60, -50, -40, -30, -20, -10, 0, +10 dR Ranne +20, +30, +40, dB (0dB= 1Vrms, 0dBm= 0.775V)

+3% of full scale to 1kHz or 400Hz Accuracy: 10M ohm for each range, 40pF or less. Input Impedance: Bandwidth: ±3%, 20Hz - 200kHz +5%, 10Hz - 500kHz

±10%, 5Hz - 1000kH; Amplifier Output: 1 Vrms at full scale 600 ohm impedance Power Requirements AC 115/230V, 50/60Hz, Approx 5VA

Cet OT-2320

\$225





# 150Mhz Universal

**Digital Frequency Counter** Up to 8 digit resolution between 10Hz and 150MHz, It has many features amongst

which is a memory hold switch which enables the co frequency permanently on display until not needed. This is not a kit it is a fully built unit with a 3 month warranty. Can be upgraded to 500MHz by adding a prescaler.

SPECIFICATIONS: Frequency Range: No of Digits:

Gate Time: Input Sensitivity Resolution

Response Time Time Base:

Power Supply: Impedance Attenuator Reset Readout Units: Hold:

Dimensions Accessories:

Includes 240V AC - 9V power supply Cat. QT-2330

10Hz - 150MHz (max) R I ED display 0.01s/0.1s/1s/10s

kHz range: 10Hz - 10MHz 50mVrms MHz range: 1MHz - 150MHz 40mVrms 0.1Hz at 10 sec gate time 1Hz at 1 sec gate time 10Hz at 0.1 sec gate time 100Hz at 0.01 sec gate time

10.00MHz (crystal oscillator ±10ppm) 6V DC battery or 9V DC 250mA adaptor 1M ohm x1 or x10

Reset the counter to zero MHz, kHz Hold the last input signal 250 x 170 x 70mm BNC to 2 x alligator lead supplied

\$199.50



### Colour Bar **Pattern Generator**

The QT-2325 is designed for repair or adjustment of Australian/New Zealar standard PAL system TV. The RF output covers Australia channel 3 and 4. This clever design uses a crystal controlled progressive scanning circuit and k

SPECIFICATIONS RF Ranges:

RF Output Level: Impedance:

Synchronising Signals: ub-Carrier Frequency: Cat. QT-2325 \$249

PAL-B.D.G.H.H.I.K. System, VHF 55Hz - 63MHz, continuously adjustable; with 55.25MHz preset

10mVrms into 300 ohm load 300 ohm balanced X'tal. vertical 50.036Hz, horizontal 15.611kHz 4.43361875MHz ±50Hz

1. Colour divided into upper and lower portions

Upper half: Red, Bluish Green, Blue. Greenish Vollow White Lower half; four Grey, Black 2. Dots 19(V) x 15(H) White 2. Crosshatch 19 x 15 square White

4. Vertical lines 19 White 5. Horizontal lines 15 White 6. Rasters fixed 100% brightness White

ENDESTRATE CPG-1360A PATTERN GENERATOR ON I

### Temperature Probe Adaptor for **Digital Multimeters**

This device simply plugs into the banana sockets of your digital multimeter. It will give an output of 1mV (millivolt) for every degree increase in temperature. This means that on, say, your 200mV DC range you can read the temperature on the multimeter directly. You can switch from °C to °F. A very high quality probe with semiconductor sensor in the tip. A generous curl cord connects the probe and adaptor housing. Requires 9V cell

SPECIFICATIONS: Linear Voltage Output: Meaurement Range:

Accuracy Sensor Current Consumption: Response Time: Battery Check:

Dimension:

Weight: Cat. OM-1590

1mV/°C or 1mV/°E -50°C to +150°C or -58°F to 302°F ±0.5°C or ±1°F Semiconductor type 006P 9V battery

2mA typical From 23°C to 99.9°C 30 sec in stirring water \*LOBAT" LED lights automatically when battery ie exhausted

Probe: Φ5mm x L160mm Adaptor: 38(W) x 70(L) x 39(H)mm Wire: 3.5 metres retractable cord 120 grams

\$59.95



Multimeter not included

98% 20 secs 0 - 60°C

Coaxial 0.8 metre long

\$79.95

in the 20MHz Dual Trace CRO business with a quality import from Korea.

This great oscilloscope features an extra large (6" diagonal) CRO tube high accuracy and good sensitivity with illuminated scale graticule



Cat. OC-1900 \$899

Probes to suit Cat OC-1902 \$49.50 each

FEATURES • Large 6" rectangular • High sensitivity 1mV/div • High accuracy ±3% • Stable, lowdrift design • 8 divisions of displayed dynamic range and accurate distortion-free waveform measurements · This instrument has a special TV sync, separation circuit for quick measurements of video signal • Convenient X-Y operation mode allows phase difference measurements between two waveforms

SPECIFICATIONS: Plastic Bodied DISPLAY CRT-6 inch rectangular, internal graticule, scale illumination, photographic bezei Effective Area: Low Cost 8 x 10 div (1 div = 1cm) External Intensity Modulation pH Meter Probe VERTICAL DEFLECTION Sensitivity: 5mV/div to 5V/div in 10 calibrated steps +3% 1mV/div to 1V/div ±5% when using x5 magnifier Lincalbrated continuous control between steps 1:<2.5 As used in new Silicon Chin nH motor This polypropylene bodied probe is a price Bandaúdh-DC to 20MHz (-3dB) breakthrough. The membrane protector is an DC to 7MHz (-3dB) when using x5 magnifier Less than 17.5n/sec integral part of the barrel. The QP-2230 has a Rice Time spear' shaped membrane which allows easy Max Input Voltage: 300V(DC+AC peak) or 500 Vp-p AC at 1kHz and effective cleaning with a cotton bud Input Coupling: AC, GND, DC Input Impedance: 1M ohm, 20±2pF
Operating Modes: CH1 (ADD), CH2 (INVERT), ALT, CHOP
X-Y Operation: CH1: X-axis, CH2: Y-axis pH Range Resnonse Cable HORIZONTAL DEFLECTION Sweep Time Range: 0.2uS/div to 0.2 S/div in 19 calibrated steps ±3% Buffer solutions included. 100nS ±5% when using x10 magnifier (20nS and 50nS uncalibrated)
Uncalibrated control between stars 1:-2.5 Cat. QP-2230 TRIGGER Auto, Norm, TV-V, TV-H AC, HF (Rej), LF (Rej), DC CH1, CH2, LINE, EXT Coupling: Sensitivity: CH1 & CH2 0.5 div (20Hz - 2MHz): 1.5 div (2MHz - 20MHz) External 200mV (20Hz - 2MHz); 800mV (2MHz - 20MHz) TV Sync: Polarity: TV (-) Calibrator 1kHz, square wave, 0.5V +3% AC 100/120/220/240 ±10%, 50/60/400Hz, 35W 290(W) x 145(H) x 375(D)mm 7.5kg Weight: Accessories Power cable, Fuse, Operation Manual

### **Economy Model** Multimeter

Ideal as a first meter. Compact enough to fit into the glove box in your car. 2.000 ohms/volt sensitivity

 Mirror scale to prevent parallax error
 Complete with test leads and instructions DC & AC volts 0-10, 50, 250 & 1000V

. 10 to . 22dB 0-100mA current

O-1M ohm (2 ranges)
Measures 90 x 50 x 30mm Battery included
Cat. QM-1001 \$17.50



### **Medium Sensitivity** Low Cost Multimeter

10,000 ohms/volt sensitivity

Fuse and diode overload protection

 Total of 18 ranges
 Battery supplied 1 x AA cell Mirrored scale to minimise

parallax errors • 0.25, 2.5, 25, 250, 1000V DC

• 10, 50, 250, 1000V AC • 0.1, 10, 500mA DC current 0-10M ohm in 3 ranges

· Safety off position to protect meter movemen Size: 63 x 105 x 30

Cat. QM-1015 \$23.50



# Logic Probe 3800A

The 3800A is versatile packet sized probe compatible with TTL, DTL, HTL, CMOS and numerous other integrated circuits It is an ideal tool for trouble shooting and analysis of digital circuits.

· Pulse memory making it suitable for use where memory function is required.

• Displays pulse presence to 20MHz, the intensity of the Pulse LED being directly proportional to the duty cycle of the signal

observed The 3800A's circuitry does the work of a. level-detector, pulse-detector and pulse

· Hi LED indicates Logic "1", Low LED

econe are easily detectable

indicates "0" All pulse transitions (positive and negative) as narrow as 50 nano-seconds are stretched to 1/4 second and displayed on the Pulse LED One shot, low rep-rate narrow pulses wh are nearly impossible to see even with a fast

 The 3800A's memory function allows for indefinite storage of single shot as well as low rep rates.

 High quality, flexible power cord Input overload protection to +35V DC continuous. Reverse polarity protection is to 35V DC. Signal input protection is to ±100V p-p. Cat. QT-2210

\$39.95



### Mini VOM Mutlitester

- 20 000 elemented Continuity burrow

23 ranges
 1.5 and 9V battery tester

. Safety test leads Handle which doubles as tilting aid
 DC volts 2.5, 10, 50, 250, 1000
 AC volts 10, 50, 250, 1000

 DC current 5, 50, 500mA, 10A on separate jack

Resistance R x 1, R x 10, R x 1k

 Decibels -8dB to +62dB on all AC ranges
 Size: 135 x 90 x 40 Cat. OH-1022

\$39.95

### Electronic **FET VOM**

The best analogue meter we could find is now available and it's under \$100 LOOK AT THE FEATURES:

· Full electronic operation (FET) 12A DC & AC current ranges · High input impedance

 Polarity reverse switch Safety test leads

Zero ohms adjust
 Mirrored meter dial

 Fuse protected Working indicato SPECIFICATIONS:

DC volts 0-3, 1-2, 12, 30, 120, 300, 1200 Input impedance approx 10M ohms Input impedance approx 10M onms
 AC volts rms 0.3, 12, 30, 120, 300, 1200
 Peak-Peak 0-8.4, 33, 84, 330, 840, 3300

 dB -10dB - +63dB at AC ranges
 DC current 0-0.1µA, 0.3, 3, 30, 300mA, 12A Potential drop 300mV

AC current ranges 0-12A
 DC resistance R x 1, R x 10, R x 100, R x 1k

R x 10k, R x 1M Size: 125 x 170 x 50mm \$79.95

Cat OM-1050





### 10 Amp Digital Multimter + Transistor Tester + Capacitance Meter

A genuine low cost high performance combination multimeter/ - capacitance meter for the enthusiast! This unit has all of the most commonly used test gear rolled into one unit Similar units are on the market but why pay around \$200 when you get the Jaycar direct import unit for much less.

#### JUST LOOK AT THESE FEATURES

- 0.5° high digits
- High quality probes supplied
   LED and buzzer continuity test
- Precision thin film resistors for long term stability CMOS logic Y 1,000 - 2,000 hours battery life
- Meter protection fused
   Complete with battery and spare fuse
- Floating decimal point
- Auto polarity Vinyl carry case



#### SPECIFICATIONS

DC Volts 0.1mV - 1000V AC Volts 0.1mV - 700V DC Current 1uA - 10A (20A max 30 secs) AC Current 111A - 10A (20A may 30 secs) Resistance

Capacitance Continuity hFE Test Diode Test

0.1 - 20M ohms 1pF - 20uF (2%) Less than 30 ohms @ 1mA 0 - 1000 10uA 2.8V 1mA (buzzer & LED)

### 45 Digit + Digital Hold + 10 Amp + Transistor Tester + **Audible Continuity Tester**

The Metex 4500H is ideal for the enthusiast/technician/ engineer who needs the high resolution of a 45 digit meter. This meter is staggeringly accurate - see specs. Not only do you get an accurate meter, you also get digital hold as well. This enables you to take a reading and HOLD that reading on display even after you have removed the probes. Simply press the 'hold' button. It's great for working in dark or cramped areas. This feature is usually only found on

very expensive multimeters! The 4500H is supplied with vinyl case, a beautiful set of probes, convenient tilting bail, spare fuse, battery and instructions. It's a meter you will be proud to own!



hFE, diode tester, audible continuity test, Full overload protection.

Resolution

Max I/P Amp

Max I/P Amp

#### SPECIFICATIONS DC Voltage Range

Accuracy Input Imp AC Voltage Range Accuracy

> Input Imp Range Resolution

Accuracy

AC Current Range Resolution

Range Resolution Accuracy

Overload Protection

200mV. 2V, 20V, 200V, 1000V 10uV, 100uV, 1mV, 10mV, 100mV 200mV-1000V ± 0.05% rdg + 3 digits 10M ohms 200mV, 2V, 20V, 200V, 750V 10uV, 100uV, 1mV, 10mV, 100mV 200mV - 200V ± 0.5% rdg + 10 digits

750V ± 0.8% rdg + 15 digits 10M oh 200uA 2mA 20mA 200mA 2A 10A 10nA, 100nA, 1uA, 10uA, 100uA, 1mA 200uA - 20mA ± 0.3% rdg + 3 digits 200mA - 2A ± 0.5% rdg + 3 digits 10A ± 1.0% rdg + 5 digits (10A range

10A (20A up to 60 secs) 200uA, 2mA, 20mA, 200mA, 2A, 10A 10nA, 100nA, 1uA, 10uA, 100uA, 1mA 200uA - 20mA ± 0.8% rdg + 10 digits

200mA - 2A ± 1.0% rdg + 10 digits 10A ± 1.5% + 5 digits (10A range 10A (20A up to 60 secs)

200, 2k, 20k, 2M, 20M ohms 10m ohm, 100m ohm, 1, 10, 100, 1k

200 ohm ± 0.2% rdg + 5 digit 2k ohm - 2M ohm ± 0.1% rdg + 3 digits 20M ohm ± 0.5% rdg + 5 digits

200 ohm 250V DC/AC rms, 2k - 20M 500V DC/AC rms

### Frequency Counter DMM + Capacitance Meter + Transistor Tester + 20 Amp Current + **High Impact Case!**

This compact DMM is housed in a bright vellow high impact plastic case . It features a frequency counter capability to 200kHz, transistor test, diode test, continuity (with buzzer). capacitance meter, up to 20 amp current measurement and comprehensive AC/DC voltage, current and resistance ranges. This meter would be excellent value at \$259, but at \$159 it is absolutely sensational.

> (Note: Because the QM-1555 is supplied in a high impact case a vinyl carry case is not supplied).



SPECIFICATIONS

200mV, 2V, 20V, 1000V DC Voltage Range Resolution 100uV. 1mV, 10mV, 100mV, 1V 200mV - 1000V ±0.3% + 1 digit 200mV . 2V, 20V, 200V, 750V AC Voltage Range

Resolution100uV, 1mV, 10mV, 100mV, 1V Accuracy 200mV-200V ±0.8% rdg + 3 digits 750V ±1.2% rdg + 3 digits Input Imp. 10M ohm

DC Current Range 200uA, 2mA, 20mA, 200mA 20A Resolution100nA, 1nA, 10uA, 10uA, 10mA Accuracy 200uA-20mA ±0.5% rdg + 1 digit

200mA ±1.2% rdg + gt 10A ± 2.0% rdg + 5 digits - 10A range unfused Max I/P Amps 10A (20A up to 60 sec

AC Current Range 2mA, 20mA, 200mA, 10A Resolution1uA, 10uA, 10uA, 10mA Accuracy 2mA-20mA ± 1.0% rdg + 3 digits 200mA ± 1.8% rdg + 3 digits 10A ± 3.0% rdg + 7 digits - 10A range

200, 2k, 20k, 200k, 2M, 20M ohms Resistance Resolution 0.1, 1, 10, 100, 1k, 10k ohms

200 ohm ± 0.5% rdg + 3 digits Accuracy 2k ohm - 2M ohm ± 0.5% rdg + 1 digit 20M ohm ± 0.5% rdg + 2 digits 200 ohm 250V DC/AC rms, 2k - 20M Overload

ohm 600V Protection DC/AC rms 200nF, 2uF, 20uF Capacitance Range Resolution100pF, 1nF

200nF-uF ± 3.0% + 5 digits 0 - 20kHz, 0 - 200kHz Accuracy Frequency Range Full overload protect

### 10 Amp Digital Multimeter with Transistor **Test Facility**

With the popularity of Digital Multimeters it was up to Jaycar to find one that had a 10A scale and did not cost an arm and

Jaycar has done it with this direct import unit with sensational specifications at an unheard of price!

#### JUST LOOK AT THESE FEATURES

- 0.5° high digits High quality probe set supplied
- High quality probe set so
   Vinyl carry case supplied
   Built-in tilting bail
- LED and buzzer continuity test
- Precision thin film resistors used for long term accuracy
- CMOS logic
   1.000 2.000 hours battery life Single function range switch
   Complete with battery, spare fuse (2AG) and instruction manual
- Protected on/off switch
- Protected Floating decimal point



\$89.95

#### SPECIFICATIONS

DC Volt 0.1mV - 1000 volts 0.1mV - 700V AC Volt DC Current 1uA - 10A AC Current 1uA - 10A 0.1 - 20M ohm Resistance Less than 30 ohms @ 1mA Continuity 0 - 1000 10uA 2.8V NPN/PNP hFE Test Diada Taet 1mA

Basic accuracy of volts, current and resistance is between 0.5 - 1.2% depending on range

Dimensions 170(H) x 90(W) x 35(D)mm

### Mutimeter **Test Probes**

(red and black). Cat. WT-5316

\$2.95



### Multimeter **Test Probes**

Test probes to 2mm multi pin plugs (red and black) Cat. WT-5315



### **High Quality** Multimeter Leads

Are you sick and tired of those old multimter leads breaking all the time? Jaycar now stocks the same leads as supplied in our Metex range of quality multimeters.

Supplied with heavy duty cable · Right angle banana plugs with plastic sleeve

 Finger protectors built in the probes
 Cat. WT-5318 \$8.95 pr



### 16 Piece **Test Lead**

Set

Consists of 2 leads with screw sockets one each end and attachments screw in. 4 x alligator clips. 4 x 2mm nin tips 4 x banana plugs, 2 x spade lugs. All colour coded red and black

Cat. WT-5218 \$9.95





### CRO **Probe**

Works with all CRO's with BNC input. One to one or ten to one attenuation Cat. OC. 1003

\$49.50



### Jaycar will purchase your surplus stocks

of components and equipment. We are continually on the lookout for sources of prime quality merchandise.
CALL GARY JOHNSTON OR BRUCE ROUTLEY NOW ON (02) 747 2022

### **Panel Meters** Style MU45

Moving coil type. Overall size: 58(W) x Mounting hole centre 38 x 38mm.

Nuts and washers supplied

Cat. QP-5010 0-1mA 200 ohms resistance Cat. QP-5012 0-50uA 3,500 ohms

Cat. QP-5013 0-1A Cat. QP-5014 0-5A Cat. QP-5020 0-20V 0.02 ohms resistance 2.000 ohms resistance Cat. QP-5020 0-20V Cat. QP-5022 0-30V Cat. QP-5030 "VU meter" 3,000 ohms resistance \$16.95 each



#### 10 or more \$15,95 each Style MU52E

Moving coil type. Overall size: 80(W) x 66(H)mm. Mounting hole centres 64(W) x 48(H)mm, 50mm meter mounting hole. Nuts and washers supplied

0-1mA 200 ohms resistance Cat. QP-5038

0-5A 0.02 ohm resistance (Similar overall appearance to MU65) \$19.95 each

10 or more \$18.95 each



#### Style MU65 Moving coil type. Overall size:

Mounting hole centres 80(W) x 64(H)mm, 63mm meter hole. Nuts and washers supplied.

0-1mA 200 ohms resistance Cat, QP-5042 0-100uA 2,000 ohms resistance

\$21.95 each 10 or more \$20.95 each



### **VU Meter**

Brand new meter, as used in our 8002 Overall size 48(W) x 45(H)mm, Meter

size 44(W) x 25(H)mm. Yellow background withords "REC LEVEL\* on meter. Cat. QP-5058 \$9.95



## Centre Zero Tunina

\$9.95 10+ \$9.50



\$9.95 10+\$9.50



### **Edge Meter** Calibrated from 0 to 10. Cat. QP-5050

\$9.95 10+\$9.50



### (DLASCAR **DPMs**

Lascar Electronics is the worlds most advanced manufacturer of quality surface mount technology (SMT) digital panel meters, Jaycar has resented Lascar since 1981 and in that time 10's of thousands of Lascar DPMs have been sold by us and are giving reliable service.

Javon's OFM division can supply R&D and volume users at specia rices Contact Gary Johnston TODAY for full specs on the DPM's and for quantity prices.

Call (02) 747 2022, telex AA72293. Fax 02 744 0767

### DPM400 3.5 Digital Display

This uniquely compact LCD DPM is ideally suited for low or high volum applications. The meter uses a 1/8 DIN standard snap-in bezel (48 x 24) for fast assembly. Auto zero, auto polarity programmable decima points and 200mV are standard features. On card pads make selection of operating mode a quick and convenient operation. At present

shelf DPM. 10mm character height • Litra low profile • Ultra compact • Annunciators Snap-in bezel • Can plug into a 28 pin IC skt . Surface mount

PANEL CUT OUT 45 x 22mm -10mm CHARACTER HEIGHT

Cat. QP-5502 10 or more \$79.95 ea \$75.00 each



### DPM500 3·5 **Digit Display**

This meter features compatibility with the popular 7106, 26 & 36 range of A/D convertors and as a single cocan replace cumbersome LCD A/D and numerous discrete components in existing applications. Auto zero, auto polarity, 200mV FSD, 12.5mm (1/2") digit height and programmable decin points are standard. There are many engineering symbols and an output for auto ranging use. On card solder pads for hard wiring of operating mode make setting up quick & easy. • 12.5mm character • Ultra low profile • Ultra low power • Snap-in bezel • Can plug into a 40 nin IC socker

PANEL CUTOUT 57 x 27mm -12.5mm CHARACTER HEIGHT Cat OP-5504 10 or more

\$85.00 ea \$81.50 each

### DPM2000 3·5 **Digit Display**

height and very high stability as well as a very large range of engineering symbols in the window. A negative rail generator IC -7660 can easily be fitted to enable the DPM to run from single polarity supplies. Auto zero, auto polarity and programmable decimal points are standard

15mm Characters • Ultra low power Many Annunciators • External bandgap reference - Single ended differential or ratiometric mode PANEL CUTOUT 68 x 33mm -15mm CHARACTER HEIGHT Cat OD SEGO

10 or more \$89.95 ea \$85.00 each



### \*DPM-200 **Panel Meter**

A low profile LCD DPM with a range of useful symbols. The DPM 200 featu 15mm 3.5 digit dispay, and ultra low current consumption and a bandgap reference for high stability. It also features auto-zero, auto-polarity, 200mV fsd. It may be used in single nded, differential or ratiometric modes The fsd can easily be changed by the user to indicate any other units. The decimal points and symbols can all be driven from an internal source. Wide supply rail (5-15V DC) with a variable threshold low battery warning indicator. Supplied with mounting clips and comprehensive data sheet.

 Ultra low power • Separately addressable annunciators : 15mm digits Bandgap reference
 On 6510 NOT RECOMMENDED.

10 or more \$89.95 \$85.00 each





Types denoted with an asterisk are not recommended for new designs but are still kept in stock for replacement purposes

#### **DPM-40** 3.5 Digit I FD DPM

A compact low-cost LED DPM ideally suited for applications where a bright display under all conditions is required. The DPM 40 is fitted with High Efficiency 11mm LEDs and is supplied with a circularly polarised red filter and bezel giving a high contrast display. Auto zero, auto polarity, programmable decimal points and 200mV FSD are standard features. Easily programmed by user to read volts, current or other engineering units. May be used in

single-ended or differential mode, or to measure floating inputs.

Low cost • High brightness LEDs High contrast display • Single ended or differential inputs Cat. OP-5542

PANEL CUTOUT 68 x 33mm \$98.00 10+ \$92.50 ea



### \*DPM-60 4.5 Digit LCD DPM

SPECIFICATIONS Accuracy 0.01% ± 1 digit Linearity ± 1 digit Samples/sec 16 Temp Stability 50ppm°C typical Temp Radge85∞C Supply Voltage 7.5 - 15V Supply Current 1mA typically Max DC Input CHARACTER HEIGHT 10mm

Cat OP-5520

10 or more \$169.00 \$164.00 each

### \*DPM-600 3.5 Digit Bandgap Reference

· Second source the world's most common DPM! · OEM's please note! This is a 'second source' componer specifically design as a drop-in

It is an auto-zero, auto polarity, 200mV FSD unit with 1/2" (12.7mm) digit height. On card pads make operating neight. On card pads make operating selection mode easy. Sensitive adjustment of the DPM is easy with a 20

turn calibration not fitted on the · Mounting bezel supplied · Ultra low nower . I ow cost second source to existing types • Easy to connect PANEL CUTOUT 62 x 32mm

\$89.95



### \*DPM50 3:5 Digit LCD DPM

SPECIFICATIONS Accuracy 0.1% ± 1 count Linearity ± count Samples/sec 3 Temp Stability 50ppm typical Temp Range 0 - 50°C Supply Voltage 5 - 15V DC Supply

Current 200uA typical Max DC Input CHARACTER HEIGHT - 12.5mm Cet OP-5513

\$98.00 10+ \$92.50 ea



### \*DPM-125 3.5 **Digital Ultra** Compact

This DPM is designed to give maximum digit size in the smallest possible space. It is also exception ally easy to use featuring on-card solder pads for easy operating mode selection and minimum number of connections. A snap-in bezel makes it easy to mount.

• 12.5mm digits • Ultra compact • Snap-in bezel • Ultra low power PANEL CUTOUT 45 x 22mm Cat OP-5500

\$75.00



### \*C7224 4.5 Digit Universal

Supply Voltage (5.5V abs max) 7.5 -15V unregulated 5V DC regulated Typ Current Consumption 1mA Maximum Count 19999 Max Counting Rate 10MHz Typical (Schmitt Trigger) Count Input Level VTH 2.5V VTI. 2V Min DC Input Level 0V Max DC Input Level 5V Op. Temp Range 0 - 50°C CHARACTER HEIGHT 10mm Cat. QP-5530

\$129.00 10 or more \$124 00 ea

( LASCAR

Cat. OP-5516

### Plug-Pack **Battery** Eliminators

batteries when one of these compact plug packs can power your calculator, istor radio or cassette recorder.

3. 4.5. 6, 7.5. 9. 12 V -300mA DC

An extremely handy eliminator. Switchable output gives 6 different voltages. Terminates to a multiway Cat. MP-3010

Size: 47(W) x 50(H) x 50(D)mm \$18.50



# Adaptors

save money by buying one of our new single voltage battery eliminators. Size: 47(W) x 59(H) x 43(D)mm

6 VOLT 300mA Cat MD 2000 9 VOLT 300mA Cat MP-2007 12 VOLT 300mA Cat. MP-3006

\$14.95 ea



### 6/9/12 Volt 500mA DC

Enough power to supply virtually any thing up to a good sized cassette that will mate with virtually any DC Cat. MP-3012 \$19.95

Size: 54(W) x 78(H) x 47(D)mm



### 13.8V DC 800mA Power

Pack

Specifically designed for burglar alarm control panels that don't need more than 900mA current, For large alarm systems use MP-3018 Cat MP-3019

Size: 65(W) x 84(H) x 53(D)mm \$28.50



### 6/7.5/9/12 Volt 1 Amp DC

Overload protected high current model. Suits continuous use intercoms, high urrent cassette recorders, toys, etc. Screw terminations and mains cord and lead. Weight 60 grams



### 12V DC 2 Amp Regulated **Power Pack**

large amounts of power are required. DC nection via banana plug or screw

Size: 85(W) x 70(H) x 145(D)mm



### Non Regulated 13.8V 2 Amp Power Supply

Especially designed for House Alarm it will power the alarm as well as charge the standby Gel battery. It will also power car radio/stereo and CB radios off the mains.

Cet MP-2019



### 12V AC 300mA Plug Pack

Ideal outboard supply for small projects Eliminates hum problems caused by internal transformers - also much safer. As used in many magazine projects.

Double insulated, Powers our AV-6501 Cat MP. 2020

Size: 50(W) x 70(H) x 45(D)mm

\$13.95

### 16V-AC 1.5 Amp Power Supply

Designed for use with many house alarm panels, like our LA-5162 and Supplied with three metres of cable for

connection to alarm Cat. MP-3021 Size: 55(W) x 90(H) x 60(D)mm



### Car Convertor 12V - 6/7.5/9V @ 800mA

Plugs into a cigarette lighter socket to provide power to your portable radio or cassette. Multiway output quits most sockets Cat, MP-3014 \$16.50



### 240-115\ 125VA Stepdown Transformer

Ferguson brand. Wire straight into screw terminals provided, 240 volts in one side and 115 volts out the other. For safety we recommend you mount it in an enclosure. Will deliver up to 1.09 amps, 125 watts into a Cat ME 1003 Size: 96(W) x 80(H) x 75(D)mm

\$76.50



#### 600/600 Ohm **Transformer** Specially designed for connecting

electronic circuits to Telecom lines. High dielectric insulation, PCB mounting, will handle quite substantial signals without saturation. Telecom approved Cat. MA-1510 Size: 36(W) x 36(H) x 36(E



HURSTVILLE 570 7000

### Universal **NiCad Battery Charger**

\* Operates from 240V mains \* Accepts AA. C. D & 9V NiCad's \* Charges single or in groups \* Charge different size batteries together \* Charging indicator

lamp at each battery position
\* Incorporates battery test facility
Cat. MB-3504 Size: 172(W) x 52(H) x 140(D)mm

\$32.50



This one does everyth

- Charges 8 AAA, AA, C or D \* Charges 3 to 9 volt cells via universal connector \* Charges 3, 6 and 12 volt Gel
- hatteries \* Charges button cells \* Test meter and LED charging
- \* 240 volt operated Size: 245(W) x 65(H) x 185(D)m

\$49.95





This handy charger will recharge your Gel batteries. Delivers 300mA current at 12 volts DC. Supplied with quick connect lugs for easy connection to the battery \$14.95

### Solar **Battery Charger**

The solar panel in the lid will charge up to 4 x AA NiCads in a fairly short time. It is ideal for yachts, campers or anywhere where 240V is not available. It is NO DEARER than an ORDINARY NiCad charger but takes about the same time to charge in reasonable sunlight Cat. MB-3502



### Low Cost NiCad Charger

Size: 65(W) x 30(H) x 95(D)mm

Charges 4AA, 8AA and 9V NiCads

Supplied with 4 and 8 way AA battery holders and 9V snap. 3 way switch allows 3 different charging rates: 6V @ 45mA, 12V @ 45mA and 9V @ 15mA.

\$17.95









### 12.6V CT @ 150mA

As used in many, many kits, 240V primary. Cat MM-2006

Size: 40(W) x 38(H) x 28(D)mm \$5.95 ea



### 6-15 Volt 1 Amp

This little beauty suits a multitude of projects with its wide range of voltages.
This one is fully approved by the A.E.E. (unlike many similar models). Voltage taps are at 6.3, 7.5, 8.5, 9.5, 12.6. &

(2155 type) 240V primary. Cat. MM-2002 Size: 60(W) x 50(H) x 50(D)mm

\$10.95 ea

15V



### 6-15 Volt 2 Amp

Voltage taps are 6, 9, 12 & 15 volts. ner current for those bigger jobs. (2156 type) 240V primary. Size: 68(W) x 54(H) x 70(D)mm

\$16.95 ea 10 up \$15.95 ea



### 15-30 Volt 1 Amp

Similar to the MM-2002 but with higher voltage taps. Also fully approved. Taps at 15, 17,5, 20, 24, 27.5 & 30 volts. (6672 type) 240V primary. Cat. MM-2008 Size: 68(W) x 58(H) x 58(D)mm

\$16.95 ea



### Low Cost Multipurpose Power

### Transformer

240V to 9, 12, 15, 18, 21, 24 volts at 60VA (60W), High grade silicon steel laminations, Made right here in Australia. Use of high grade silicon steel has enabled surprisingly compact dimensions, 240V primary.

6 64 No 6.6A Yes 6.6A No 4A 18 224 2.04 Cat. MM-2005 Size: 70(W) x 58(H) x 70(D)mm

\$26.50 ea

10 up \$25.50 ea



### 18 Volt 6 Amp High Current

This heavy duty transformer is ideal for CB and Amateur computer nower supplies and battery charger use. Fly lead terminations, 240V primary, Cat MM-2000

Size: 95(W) x 84(H) x 75(D)mm \$31.95



### 22/0/22 Volt 1.5 Amp

As used in the Playmaster Twin 25 amplifier. Suits many similar amps. 240V nrimary Cat. MM-2010 Size: 80(W) x 65(H) x 65(D)mm

\$22.50



### 35/0/35V 2.5 Amp

Playmenter MOREET and ETI 5000 amps. This is the transforme recommended by EA for this project. With copper strap to reduce hum field dramatically Size 95 x 79 x 95mm, 240V primary Cet. MM-2015

\$55.00



### 47/0/47 Volt 3 Amp

4363 type designed for really high power use. Used in both the EA and ETI 300 watt modules Has 2 x 15V @ 500mA

windings to power preamps etc. 2409/ prima Cat. MM-2017

Size: 110(W) x 85(H) x 95(D)mm



### 28/0/28 Volt 2 Amp

Standard E core model, Ideal for power amplifiers. As used in the ETI 480 power amplifier kits. 240V primary. Cat. MF-1095

\$31.95

### Speaker Line

### Transformer

lines (in outdoor PA's etc). Primary 2.5/5k, secondary 2, 4, 8 & 16 ohm 4 watts rms power rating Cat. MM-2001 Size: 43(W) x 35(H) x 35(D)mm

\$6.95 10 up \$6.50 ea



### Strobe Trigger

As used in the ETI Strobe kit or for general hobbyist projects. Cat. MM-2520 Cat. MM-2520 Size: 10mm x 7mm dla. \$1.95



## **Transformers**

Primary/secondary 500 ct/8 ohms iron core
 Size 15 x 11 x 14(D)mm

 450mW rating Cet MM-2530 \$1.95 ea 10 up \$1.85 ea

 Primary/secondary 1k ct/8 ohms Ferrite core
 Size 15 x 14 x 11(H)mm

Cat MM-2532 \$1.50 ea

10 up \$1.35 ea

#### COUPLING . 2M2h

 Iron core Size 16 x 15 x 15(D)mm Cat MM-2534

\$1.50 ea 10 up \$1.35 ea



### **Low Cost** Line Input

#### Transformer Max input level +12dBr

Ideal input coupling transformer enable DC isolation of various modules therefore preventing hum pick-up etc. Wide frequency response: 30Hz to 30kHz Nominal impedance ratio

Ideal for coupling from 600 ohm lines to amplifier input stages etc. Cet MT-4705

Size: 32 x 30 x 27/Dimm \$7.50 ea

### 10 up \$6.90 ea



### 20 Watt

### Line

Primary power taps (100V line) 1,25/2,5/5/10/15/20W (halve these for Secondary tane 4/9/16 ohme

Cat. MM-2003 Size: 59(W) x 50(H) x 45(D)mm \$17.95



### C-Core - used in amplifier 60/60 -JT353

This is a superb piece of enginering Basically it is a dual diagonally wound power transformer. This winding technique greatly reduces stray hum fields - similar to a toroid. The advantage is that slightly more pow can be extracted from the same space that a toroid of similar ratings would occupy. Supplied with mounting bracket Primary

30-0-35V @ 2A 15-0-15V @ 0.25A Secondary Cat. MM-2020

Size: 95(W) x 76(H) x 95(D)mm \$79.50

### Balanced Microphone

Transformer Mu-metal shielded can, bush mo

200 ohm ct primary/secondary. 10k ohm primary/secondary. Can be used either way round, Used for PA mixers, disco's etc., where low hum mic input is needed, Cat. MT-4710 Size: 30(H) x 15mm dia.

\$20.95

### Bridging/ Isolating Transformer

Mu-metal shielded can. Used for coupling audio modules - prevents earth m, etc. Essential coupling device where DC isolation is required. inal impedance ratio 10k:10k

Cat. MT-4720 Size: 30(H) x 15mm dia,



### **PC Mount**

A series of ultra-compact PC mount transformers. nese are used in many pop projects. A range of voltage with corresponding current. All have two secondary windings which can be used to provide + supplies or connected in series to double the voltage, or parallel to double the

240V primary Cat. MF-1000 2 x 4.5V @ 1.11A Cat. MF-1000 Cat. MF-1002 2 x 6V @ 830mA 2 x 7.5V @ 670mA Cat. MF-1006 2 x 9V @ 560m4 2 x 12V @ 420mA 2 x 15V @ 330mA Cat ME-1000 Cat. MF-1009 2 x 15V @ 350mA 2 x 20V @ 250mA



# 20VA

Flat Pack These are low profile transf suitable for many projects. Twin secondary gives maximum flexibility Lower hum radiation than

conventional types. 240V primary Cat. MF-1030 PL12/20VA PL12/20VA 2 x 6V @ 1.67A PL 15/20VA Cat. MF-1033 2 x 7.5V @ 1.33A Cat. MF-1036 PL18/20VA 2 y 9V @ 1 114 Cet ME.1020

2 x 12V @ 830mA PL30/20VA 2 x 15V @ 670mA Cat. MF-1045 DI 40120VA 2 x 20V @ 500mA ≥ 3 ≥07 @ .... Size: 85(W) x 40(H) x 60(D)mm

\$27.95 ea



#### \_60VA Higher profile. Low hum radiation and

daries, 240V primary. twin secondari Cat. MF-1072 DI 15400MA 15V @ 4A 1 winding only DI 10/00//A

Cat. MF-1075 2 x 9V @ 3.33A Cat ME-1078 PL24/60VA 2 x 12V @ 2 54 Cat. MF-1081 PL30/60VA 2 x 15V @ 2A Cat. MF-1082 2 x 20V @ 1.5A

Size: 85(W) x 53(H) x 60(D)mm \$41.95 ea



### **Toroidals**

#### WHY A TOROID?

- · Smaller size and weight to meet modern 'slimline' requirements
- Low electrically induced noise demanded by compact equipment
   High efficiency enabling conservative rating whilst maintaining size
- Simple, quick, single bolt mounting

The Toroidal transformer is now accepted as the standard in the industry. overtaking the obsolete laminated type, Industry has been quick to recognise the advantage toroidals offer in size, weight and lower radiated field. Current ratings on toroidal transformers. Can be used in 2 ways:-

A) both secondary windings in series - higher volts
 B) both secondary windings in parallel - higher amps

160VA torolo	ds		
Cat. MT-2112	12V	6.66	
Cat. MT-2113	18V	4.44	
Cat. MT-2114	25V	3.2	
Cat. MT-2115	30V	2.66	
Cat. MT-2116	35V	2.28	
Cat. MT-2117	40V	2.0	
Cat. MT2119	45V	1.77	

12.33 amor 45V 3.55 Size: 110 O/D x 50 I/D x 40/H)mr



300VA toroids Mode A Mode B Cet MT-2130 Cat. MT-2132 18V Cat. MT-2134 25V 12.0 Cat MT-2136 30V





### END CAPS Toroidals to suit AEM 6000 Power Amplifier

30-0-30V enva Cat. MT-2191 Size: 110 O/D x 50 I/D x 30(H)mm \$49.95

50-0-50	V				
300VA					
Cat, M7	-2190				
Size: 12	5 O/D >	54	ND	X	55(H)mm

INCHESTION PRIMARY

IEC-Type

Mains Input

MADE IN THE USA

This high quality filter is basically a metal box with soldered on lid. On one side is an IEC-320 type recessed chassis plug. The box mounts on the inside of a cabinet with an appropriate hole for the IEC connector and two mounting screws. The filter is rated at 240V 3 amps 1/4" Q.C. type terminals are on the top for simple internal

115,250V AC 47 - 63Hz 65(D) x 45(H) Dims:

x 53/W)mm Very high quality.

\$19.95 ea 10 up \$17.95

(OEM's check us for bulk prices) 8 amp version Cat. MS-4005 \$29.95 (not illustrated

#### Squeeky Clean Mains Filters

PROTECTION FOR: MICROPROCESSORS. TERMINALS, MICRO COMPUTERS, PRINTERS, DISK

DRIVES AND TELEMETRY EQUIPMENT Used by Government Departments, Schools, Universities, Ranks

and TV Stations

Most modern personal computers and peripheral equipment are fitted with basic type filtering components. In most instances this protection offers filtering components, in most instances this protection offers only minimal protection and is not capable of handling many mains supply problems. The problems facing the personal computer user includes high levels of RF (radio

requency) interference, voltage spikes and FM modulation.

The supply authority actually superimposes a range of frequencies from

The supply authority actually superimposes a range of frequencies from Italize to over many white for the control of lot water systems, and other industrial remote control services. Additionally both industrial and demestic motions turning on For you to ensure maximum subsquared to both your hardware and software against RF noise, control tones and voltage spikes the equipment should be pre-filtered by a SOUEERY CLEAN MAINS F.LTER.

Many unexplained errors, programme corruption and general inconvenience are eliminated by a Squeeky Clean. SPECIFICATIONS:

N10716/N10717

Approval No's: Load Rating: Clamping Voltage: Peak Impulse Current: Protection Modes: Farth Leakage: Cable Length:

Cont 10 amps, with circuit breaker at 240VAC 390V peak or 275V rms 2000A (8 x 12u); 2 outlet (8 x 20u) Will not trio a 20mA Earth Leakage breaker 1 metre (approx)

4 OUTLET Cat. MS-4020 \$269.00

2 OUTLET Cat. MS-4025 \$99.00





### **Economical Mains Filter**

zouv Ac @ 3A Insertion loss line to line 20dB 0.8 - 30MHz, Line to ground 30dB 0.7 - 30MHz, Ideal for computers, amps, etc. Quick connect lugs. D.O.T. approved. Cat MS-4002

Size: 35(W) x 28(H) x 27(D)mm \$26.50



## TO-220

This little heatsink is great for voltage regulators and flat pack transistors. Its small size ensures

it will fit into the tightest places. Size: 20(1) x 13(W)mm with fins 9mm. high Cat. HH-8502



85¢ 10 up 75¢ ea

### TO-220 Heatsink

A larger version of HH-8502. Ensures maximum dissination where the mini TO-220 will not suffice. Size: 30(L) x 25(W)mm with fins 13mm high



\$1.50

10 up \$1.35 ea

### **TO-18** Round Fan Type

High efficiency, feather weight press-on for maximum dissipation. Total diameter 16mm x 10mm high Cat. HH-8505



65¢ 10 up 59¢ ea

TO-5 Round Fan Type

As TO-18 but suits TO-5 transistors. Total diameter 19mm x 5mm high,



55¢ 10 up 45¢ ea

### TO-220 Clip-on

The heatsink will just clip over a device when required for permanent or temporary installation Cat. HH-8503



\$1.20 10 un \$1.10 คя

### TO-220 Medium

A medium version for all flat pack devices. Measures 27mm x 25mm base and 34mm high.
Used extensively on PC boards.
Vertical flutes for maximum thermal efficiency. Cat. HH-8508



IC

\$1.00 10 up 90¢ ea

Heatsink

Very handy heatsink if you have an overheating IC. Measures 18.5mm long x 6mm wide x 5mm high. Heatsink has Cat. HH-8506



95¢ 10 up 80¢ ea

### Universal "U" - Type

Universal hole pattern allows mounting of nearly every power transistor, as well as flat packs. Ideal for PCB mounting. 60mm long x 35mm wide with fins 30mm hig

\$1.50 10 up



### **TO-3 Special**

We have made a bulk purchase of TO-3 minifin heatsinks. Size 38mm x 38mm base x 26mm high.



OFM's ASK FOR OUR GREAT QUANTITY PRICES

\$1.95 10 un \$1.75 ea

### **TO-3** Minifin

This heatsink gives incredible heat dissipation due to its unique fin design it measures 50mm x 50mm by 25mm high. nign. Drilled to suit TO-3 case Cat. HH-8510



\$2.25 10 up \$2.05 ea

### **Universal TO-3 Transistor** Mounting **Bracket**

Mounts 4 x TQ-3 devices on prepunched heavy duty right angle bracket. Hole pattern conforms to most popular PCB designs for amp kits. 152mm long x 40mm wide turned corner 12mm long. Cat. HH-8500



\$2.50

### Versatile Heavy Duty

Extrusion is tapped and supplied with mounting screws. Allows horizontal

vertical mounting. Heatsink has tongue and grooved ends enabling "ganging" of heatsinks together. Size 110(W) x 33(H) x 78(D)mm

UNDRILLED \$5.50

10 up \$5.15 each

DDILLED 2 - TO 2 \$6.75

10 up \$6.50 each



### Economy Power

This unit has fins on both top and hottom. Available in both drilled and undrilled types. Accepts two of each type transistors TO-3, TO-126 and TO-

\$4.50 UNDRILLED 10 up \$4.10 each

DRILLED 2 x TO-3 \$4.95 10 up \$4.50 each Cat HH-8561



### High Efficiency Fan Type

Due to its thick hase and fan type fins these inks can dissipate massive amounts of

Available in various lengths, 105mm wide Cat. HH-8570

\$3.95 35mm long 10 up \$3.65 each Cat HH-8572 75mm long 10 up \$5.20 each \$5.50

Cet HH-8574 225mm long 10 up \$14.25 each \$14.95

Cat. HH-8578 \$16.95 300mm long 10 up \$15.95 each



### Super Heavy Duty

This is a black anodised heatsink section which is finned on one side and flat on the other. The extrusion cross section is 125mm wide and 36mm high. Unique recessed channels are incorporated into the flat side to accommodate screws, panels, heatsink brackets, etc.

AVAILABLE IN THREE LENGTHS Cet ULL-9500 \$ 7.95 125/W) x 75(l )mm

Vertical 2 unit rack Cat. HH-8592 \$11.95

125(W) x 125(L)mm Vertical 3 unit rack

\$20.95 Cat. HH-8594



#### Die Cast

Cat. HH-8542

Jaycar is proud to announce a range of Made in Australia diecast heatsinks

Australia diecast neatsinks.

They are gravity cast in aluminium, have the area. where semiconductors mount, milled flat and are finally finished in powdercoat black. They are low cost for the performance offered
SIZE 134mmx 65mm (high) x length (see below)

8FNF SERIES

Cat. HH-8540 \$4.95 50mm long 10 or more \$4.65 each

Cat. HH-R541 75mm long 10 or more \$7.00 each \$7.50

\$9.50 100mm long 10 or more \$9.00 each Cet HH-95/3 \$10.95 150mm long 10 or more \$10.50 each

MF10-2F-75 74(H) x 144(L) x 46(W)mm (Bracket 34mm wide) Cat. HH-8548

\$9.95 ea 10 or more \$9.50 each





MF-21-2F-75 Long diecast featuring large H/S surface area in a low

Dimensions: 300(W) x 75(H) x 80(D)mm

\$19.95 ea 10 up \$17.95 each MF-14-2F-75

Similar to MF-21 but with deeper fins and not as long. Excellent for power amp 'bricks'.
Size: 195(L) x 66(H)mm + bracket 34 x 76mm fin

Cat HH-8550 \$19.95 ea



MF-14-2F-150

Double decker version of HH-8550. Enables you to mount 2 amplifier circuit boards on too of each other. Only occupies 6" of height. Size: 196(L) x 66(H)mm + bracket 34 x 150mm

Cat. HH-8552 \$32.95 ea 10 up \$29.95 each



### Heatsink Front **Panel**



As used in the AEM6000 power amp. It can also be used as the sides of a 4 unit rack case for high-power rack mount PA amost Die cast. Total length 352mm - height 166mm Total depth 61mm - No of fins 20 Cat. HH-8520

\$49.95 each



### Deluxe Rack

#### Cabinets

NOW YOUR PREAMPS, AMPS, CONTROL MODULES, MONITOR PANELS etc., CAN LOOK EVERY BIT AS GOOD AS TECHNICS. NAKAMICHI AND OTHER TOP MANUFACTURERS

These beautifully crafted rack cabinets will give your equipment a real 1st class appearance. All aluminium construction. Removable top and bottom panels. Nature or black finish. All dimensions conform to the International standard. Ventilated lid. Deluxe brush finish anodised front panel. Individually cartoned. Supplied in flat pack form and easily assembled in a few minutes.

	Finish	A	В	C	Each	+5	
Cat. HB-5411	Natural	44	34	38	\$65.00	\$62.00	
Cat. HB-5413	Natural	88	57	82	\$75.00	\$71.00	
Cat. HB-5415	Natural	132	89	126	\$90.00	\$85.00	
Cat. HB-5410	Black	44	34	38	\$65.00	\$62.00	
Cat. HB-5412	Black	88	57	82	\$85.00	\$80.00	
Car LID E414	Dlook	122	90	120	\$95.00	00.002	

#### Beware of other rack cabinets that do not conform to International Rack sizing. SIX NATURAL AND BLACK FINISH MODELS

The black or natural finish cabinets are available in 44mm, 88mm or 132mm high fules. Mounting hole centres conform exactly to International Racking Specifications both vertically and horizontally.



### **Blank Rack Panels**

Of the same high qualit	y as our Internati	onal Rack series.	
Cat. HB-5431 44mm	\$ 9.95	Cat. HB-5430 44mm	\$11.50
10+ \$9.00 Cat. HB-5433 88mm	\$16.95	10+ \$11.00 Cat. HB-5432 88mm	\$19.95
Cat. HB-5433 B8mm 10+ \$16.00		10+ \$18.95 Cat. HB-5434 132mm	\$26.50
Cat. HB-5435 132mm 10+ \$19.95	\$20.95	10+ \$27.50	ψ20.00

### **Economy** Rack Cabinet

- · Solid steel construction
- · Black anodised front panel
- Conforms to International standards
   Ventilated top and side panels

Cat. HB-5402



#### \$72.50

#### Rack Frames

### FANTASTIC RACKING SYSTEM AVAILABLE IN 2 FOR-

(1) RACKING FRAME ONLY Fantastic for neatly housing your home Hi Fi system. Looks fine as is with your various sound system modules bolted in place, however, should the little woman disagree, then it is dead simple to obtain some low cost. should the little woman disagree, then it is dead simple to dottain some low cost timber panels from your local cabinet shop to fill the side and top recesses. Edging of the timber is not required due to the 15mm recesses.

of the timber is not required due to the 15mm recesses.

(2) COMPLETE EQUIPMENT CABINET with the simple addition of the panel sets you now have a series of professional equipment cabinets of appearance and

ruggedness second to none - and just look at the savings!

ASSEMBLY Each Frame System is supplied complete with 12 custom extruded pieces, 6 clip-in M6 captive nuts and 6 M6 mounting screws. The sections and corner pieces simply push-fit together. A rubber or wooden mallet is recommended to fit fall together, they are self aligning pieces. Further strength can be obtained

by pop rivetting the various overlapping extruded sections if desired, although we by pop fivering the various overlaphing announce sections. I control hardly feel this is necessary.

SIDE AND TOP PANELS Tough powder coat medium grey gives a pleasing

sible AND TOP PARELS rough powder coal meaning groy grows a powding contrast with natural anodised frame. The resultant product is extremely professional in appearance and well and truly strong enough for the heaviest of

SUPPLIED IN FLAT PACK FORMAT EASILY ASSEMBLED IN MINUTES

RACK FRAME SET 6 UNIT (370mm)			
	\$1	09.50	)
PANEL SET FOR 6 UNIT			
	\$	49.00	J
RACK FRAME SET 18 UNIT (907mm)			
	\$1	39.50	)
PANEL SET FOR 18 UNIT			
	\$	89.00	J
RACK FRAME SET 30 UNIT (1450mm)			
	\$1	69.50	J
PANEL SET FOR 30 UNIT			
		29.00	J
SCREWS AND CAPTIVE NUTS TO SU			

Cat. HP-0640 Captive nuts pack of 12 \$4.95 Cat. HP-0645



### **High Energy Rack Case**

The use of Super Heavy Duty Heatsinks as rack case sides now allows a myriad of amplifiers, power supplies, battery chargers, etc., to be built in an "Off the Shell" rack

#### EANTASTIC EOD STEDEO ANDI IFIEDS

Using heatsinks will accommodate an audio output stage of approximately 120W with normal efficiency and dissipation. A great chassis for heavy duty power supplies and battery chargers. Allows the simple fitting of computer type fans to inside back of real panel, adjacent to each respective heatsink SPECIFICATIONS

Front Panel

3 unit rack size 480 x 132 x 3mm 1.6mm aluminium
 1mm steel, ventilation slots provided

Base/Top 1mm steel, ventilation Internal Dimensions 125 x 370m x 250mm

External Dimensions 130 x 440 x 252mm plus standard front panel Black anodised aluminium plus powde

Cat. HB-5400 ONLY \$129.50 4 or more \$122.50 each

Finish



### Instrument

#### Cases

Excellent range of cases made in Australia from heavy lasi ceneral numose case at a reasonable price.

Cat HR-5459 \$10.50 Cet HB-5460 \$12.95 Cer UR.5462 \$16.95 Cat. HB-5464 \$21.95 Cat. HB-5466

150(D) x 55(H) x 100(W) 10 up \$10.00 ea 200(D) x 80(H) x 130(W) 10 up \$12.50 ea 255(D) x 77(H) x 155(W) 10 up \$15.95 ea 255(D) x 153(H) x 155(W) 10 up \$20.50 ea 305(D) x 90(H) x 200(W) 10 up \$20.50 ea



\$25.95 10 up \$24.50 ea

## Metal

#### Cases

As used in many popular magazine projects.

Aluminium case finished in grey with black finish steel cover. Ventliated and supplied with rubber feet.

Cat. HB-5441 53(D) x 83(H) x 102(W) \$6.25 10 up \$6.00 ea Cat. HB-5442 150(D) x 61(H) x 102(W) \$6.50 10 up \$6.25 ea Cat. HB-5444 150(D) x 76(H) x 134(W) \$7.50 10 up \$7.00 ea

Cat. HB-5446 184(D) x 70(H) x 160(W) \$10.95 10 up \$10.50 ea



### Instrument

#### Cases

High quality Australian made cabinets. Each box is manufactured with quality material throughout. The covers/sidee/rear of the box are in manyiplate and the front panels in natural anodised 1.2mm thick

aluminium.

auminium.
There are two styles:
Style A is a box which has top, bottom and sides formed as one piece, Front and rear panels are set in by about 8mm and located by a recessed flange. In this oy account serral and located by a recessed liangle. In this way you can remove both front and rear panels and the box retains its integrity. 8 Paneling screws are provided. Style B is the more conventional cablent with the top and sides forming an inverted 'U and the front, base and rear forming a 'U as well. The two halves then mate together. The bottom section has folded returns. for strength and fastening. The top has a completely folded back return for an attractive finish with strengt

STYLE A 90(D) x 125(H) x 192(W) Cat. HB-5480 \$25.95 Cat HR-5481 A 140(D) x 175(H) x 225(W)

\$31.95 Cat. HB-5482 B 145(D) x 115(H) x 210(W) \$31.95

Cat. HB-5483 B 200(D) x 90(H) x 220(W) \$31.95 Cot HR-5484 B 280(D) x 145(H) x 300(W)





#### Plain Aluminium

Made from 20g aluminium. Two handy sizes, screws 100(D) x 58(H) x 45(W)mm

Cet UR-5100

10 up \$4.25 ea

\$4.50

10 up

150(D) x 100(H) x 70(W) \$6.50 \$6.20 Cat. HB-5101



### Horwood Instrument

### Cases

These quality cases are popular for housing amplifier power supplies, instruments - anywhere a medium to large, good looking case is needed.

#### ALL CASES: 203(D) x 102(H)mm 1 off 104 C# HB.5472 153/W \$26.50 \$24.95

Cart HR-5473 213/W \$28.50 \$26.50 Cat. HR-5474 254(W) \$31.50 \$29.50 Cat. HB-5475 314(W) \$35.00 \$32.50 Cet HB-5476 4010V \$39.50 \$37.00



### Diecast **Aluminium**

These are the ideal housing for any project needin durability and excellent shielding. Popular for RF projects, musical projects and automotive projects Cat. HB-5000 100(D)x26(H)x52(W) \$7.25 10. 27.00 03 Cat. HB-5002 110(D)x30(H)x63(W) \$7.95

10+ \$7.50 ea Cat. HR-5004 122(D)x41(H)x67(W) eo 60 10+ \$9.00 ea Cat. HB-5016 190(D)x60(H)x110(W) \$20.95 C# UB-5020 110/DIV53/HIV94/WI \$13.95



### **Aluminium**

Compact, economical cases for similar uses to the Zippy boxes, but where shielding is required.

C= UD.5404 125/D(v40/H)v65/W)mm \$5.75 10 up \$5.50 ea Cat HR-5495 150(D)x55(H)x95(W)mm 10 up \$6,50 ea

\$6.95



### Jiffv Boxes -In ABS Plastic

What can we say about these famous boxes, ideal for any small project needing a quality, economical case.
Unique horizontal PCB "snap-in" mounts as well as vertical card guides. Order your PCB's pre-sized and dispense with costly stand-offs, screws, etc. These utility boxes are used in dozens of ETI, AEM, EA and Silicon Chip projects.

#### Black With Aluminium Lid

	Dimensions	1-9	10+
Cat. HB-6001	150x90x50	\$3.85	\$3.50
Cat. HB-6002	195x113x60	\$5.50	\$5.10
Cat. HB-6003	130x68x41	\$2.95	\$2.60
Cat. HB-6005	83x54x28	\$2.20	\$2.00



Beware of inferior so-called equivalents which are moulded in cheaper Styrene which can crack when drilled

#### Black With

## Plastic Lid

at. HB-6011		\$3.99	\$3.7
at. HB-6013		\$3.25	\$3.0
at. HB-6015	83x54x28	\$2.40	\$2.2
			-

#### Grev With Plastic Lid

Cat. HB-6021 150x90x50 Cat. HB-6021 130x68x41 Cat. HB-6025 83x54x28



#### PCB board width

150 x 80 x 50 90 195 x 113 x 60 106 103 130 x 68 x 41 92 × 54 × 20

### **Pro Quality** Instrument

Cases

Our superb instrument cases will give your projects the professional appearance they deserve.

Internal mounting posts enable a wide combination of PCB's, transformers, etc., to be accom

eunnlied) PCB guide rails provided internally allow vertical PCB positioning to several locations - Removable front and re nanels attractive textured

finish one side and plain the other. (Enables direct engraving, silk screen printing etc., to plain side)

\* Top and bottom soilt apart for ease of construction or service, Integral feet included

Great for test instruments and other high grade p NOW AVAILABLE IN 3 GREAT SIZES SMALL - NON VENTED Overall size: 150(W) x 160(D) x 65(H)mm

\$12.95 10 up \$11.95 ea MEDIUM - NON VENTED

Overall size: 200(W) x 160(D) x 70(H)mm

\$14.95 10 up \$13.75

LARGE - VENTED CASE Overall size: 260(W) x 190(D) x 80(H)mm Cat. HB-5910

\$19.95 10 up \$18.50



### Weatherproof Outdoor **Plastic** Enclosure

This enclosure is moulded in black UV stabilised ABS plastic. The front cover is moulded in clear polyca ate. A rubber gasket is supplied along with nylon cover

MADE

OAUSTRALIA

It is ideal for mounting an electronic assembly in the open. Because the cover is clear, circuitry inside can be operated by remote infra red control. It is also ideal for a weatherproof LED or liquid crystal

This is a high quality cabinet, Ideal for electric fe Approx size: 250(L) x 90(D) x 125(H)mm



### 240V 3 Pin Plug/Enclosure

(usable depth)mm has a moulded 240V 3 pin plug insert which can be rotated through 180° to allow the tor to mount in any of 3 positions (see fig. 1). There is a generous space inside the box to fit relays electronics, etc. for whatever reason you like We expect that many mains powered magazine projects will require this unique Jaycar producti



### Interlocking **Parts Drawers**

Unique side and top/bottom keying system allows you to use just a few or build a whole wall of drawers as your parts expansion dictates. Quality designed drawer slides will not 'stick' or seize. Slide handles also takes identity cards. Single or double drawers available. Size: 110(W) x 120(D) x 50(H)mm SINGLE DRAWER Cet HR-6300 Cat. HB-6301 DOUBLE DRAWER

\$5.50 ea



#### Console Box

Size: 170(W0 x 214(D) x 32(HF) x 82(HR)mm

Cat. HB-6240 GREY

\$27.95 ea



### Mini-Mini Plastic Snap Together Case

Our Smallest General Purpose Boxl
At last. A box for those REALLY SMALL projects
FM bugs, remote sensors, ministure radios, etc.
Black in colour measuring (externa) 45 x 95 x
19mm t is ideal for many applications. Case spits
halfway down the sides and snaps together to save





### Key-Fob style Burglar Alarm Transmitter Case

We dare not say which professional alarm compansoid us this one Blut after morths of searching we have a product for our 1988 product line-up. The (piack) case measures 42(1), (plus a little more for a kayring hole) 34(W) and only 11.8 mm deep! The case is hold together by one screw. The internals are 40.5 x 31 x 9.7 mm deep - enough room for a transmitter and battery. The top of the case has a special hole for a pushbutton and another for a LCT.

\$3.95 10+ \$3.65 ea



### Bulkhead Mount Plastic Case

A unique clip together case that features moulded in mounting feet on the sides. Measures 87(L) x 67(N) x 31(D)mm. Ideal for car burglar alarms, etc. Black in colour.



Bug Boxes



We are proud to announce a range of plastic antistatic enclosures basically for integrated circuits. It is in fact a system called "Bug Boxes". The Bug Box system is a complete storage/protection/ identification and retrieval capability for, as we said, [0"s, small other parts, such as acrews, or even small tools!

The system is in fact completely modular. The user can purchase a single tray or establish a full blown storage and retireus system from the modules described below. It is ideal for computer field service or in the lab for parts storage. They are heavily injection moulded for long trouble free industrial use. Made in the USA.

### **Bug Box**

This is essentially a flat tray measuring 123(L) x 83(W) x 15(D)mm moulded in anti-static plastic with a clear locking plastic soling cover. The cover has numbers marked on it that correspond to the compartments inside. It also has a unique pattented feature which enables you to reveal one compartment per row without revealing the others and endangering their

contents.
The Bug Box will hold 60 x 8 pin IC's or 30 x 14, 16, 18 or 20 pin IC's in its 30 separate compartments (each compartment measures 25.4(L) x 9.5(W) x 12.7(D)mm. The Bug Box tray is blue in colour and sides into the Bug Cage described elsewhere on this page.

\$5.95 each 10 or more \$5.45 each





## LSI Bug Box

Similar in principal to the HB-8500 except that it is meant to store larger IC's or resistors, cape, etc. Also anti-static. Same external dimensions but with 3 compartments 107(1) x 25.4(1)% x 127(0)mm which run the length of the tray, Six vertical and six horizontal clear plastic divides are included to further subcloride clear plastic divides are included to further subcloride requires. Colour blue with clear cover. Cat. HB-6539

\$7.95 each

ch T



### Instrument Case

A proud addition to our range. This very attractive case is instrument blue in colour, made in ABS pleasic, has removable front and rear panels, vented and looks extremely smart. Its along the same lines are ur Hs-9512 box, but not as high.

Measures: 196(W) x 290(D) x 40(H)mm. Accepts
PCB vertically 70x 34mm and horizontally 220 x

### **Bug Cage**

The heavy duty moulded cabinet accommodates up to 8 Bug Boxes. Once inserted each tray is spring loaded to stand proud of the front of the cabinet to allow easy removal between thumb and index linger. The cabinet also has tongue and groove dovetails to allow adjacent Bug Cages to interfack together to make a modular storage system. Size: 128(H) x 100(W) x 131(D)mm

\$9.95 each



### **Bug Cage Cover**

A snea in clear acrylie door that can cip on the HB-5368 Big Cage. Holds all trays securely in place and enables the user to identify various trays without the need to open the cabinst. As the trays are spring mounted in the cage, the cover keeps them securely in place. The trays will not rattle when a Cage Cover is fitted and is therefore a definite requirement for mobile use. 10 or more \$6.45 each

\$6.95 each



#### TURN YOUR SURPLUS STOCK INTO CASH!! Jaycar will purchase your surplus stocks of

aycar will purchase your surplus stocks o components and equipment. We are continually on the lookout for sources of prime quality merchandise.

CALL GARY JOHNSTON OR BRUCE ROUTLEY NOW ON (02) 747 2022



**ONLY \$16.95** 

### **Brushed** Aluminium

The following three knobs have a high quality brushed aluminium finish, an engraved pointer and very attractive appearance, making them sultable for Hi Fi projects or wherever a great appearance is

Cat. HK-7020 16 dia x 14mm H \$1.85 each 10 up \$1.70 each

Cat. HK-7022 22 dia x 14mm H \$1.95 each 10 up \$1.75 each

Cat. HK-7024 28 dia x 14mm H \$2.85 each 10 up \$2.60 each



### Polished Aluminium

Cet UK-7030 \$1.75 ea 10 up \$1.65 each



### Black **Anodised**

Anodised knobs that look a million dollars and will make your project look

Cat. HK-7013 29 dia x 21mm H \$2.95 ea 10 up \$2.75 ea

Cat. HK-7015 40 dia x 25mm H \$3.95 ea

10 up \$3.60 ea Note: HK-7013 & 7015 are matching

Cat. HK-7010 22 dia x 14mm H \$2.10 ea

10 up \$2.00 ea



### **Black Plastic**

ALLIMINIUM INSERT 2 SIZES

Cat. HK-7756 32 dia x 17mm H \$1.45 ea

10 up \$1.30 ea Cat. HK-7754 24mm dia



### Black **Plastic**

ALUMINIUM INSERT

Ideal for projects. Aluminium insert in top, easy to see pointer Cat. HK-7786 20 dla x 18mm H

\$1.40 ea 10 up \$1.25 ea



### Black **Plastic**

WITH POINTER The old favourite, as supplied in countless kits

Cet UK-7707 23 dia x 14mm H

\$1.10 ea 10 up \$1.00 ea



### Skirt with Number 1-10

Cat, HK-7788 \$1.65 ea

10 un

\$1.50 ea Cat. HK-7549

\$1.95 ea 10 up \$1.80 ea



## Matching Equipment

A new range of plastic knobs with 1/4" shaft grubscrew fixing. Modern fluted style with slot for pointer and small skirt. 4 matching sizes

Cat. HK-7760 12 dia x 12mm H \$1.00 ea

10 up 90¢ ea Cat. HK-7762 20 dia x 16mm H \$1.30 ea

10 up \$1.20 ea 24 dia x 20mm H \$1.40 ea

10 up \$1.30 ea Cat. HK-7766 35 dia x 19mm H \$1.65 ea

10 up \$1.50 ea



### Cliff **PushOn**

These are amazing knobs, just push on to a standard 0.25" (1/4") shaft. No more messy screws. They are great for mixers, amplifiers, etc., where unito size knobs are required, but need to be different at a glance. These knobs are used on some of our higher priced kits. Complete with coloured cap. Made in England. 20mm diameter x 18mm high. Cat. HK-7705

Red Cat. HK-7707 Black Cat. HK-7709 Blue Cat. HK-7711 Green Cat. HK-7713 Yellow Cat. HK-7715 White Grey Cat. HK-7717 ALL ONE PRICE

\$1.25 ...



### Schadow Switch Knob

These are used on those pushb switch banks, as well as the Schadow push on/off switches. They have a square hole to accept shaft, 10mm diameter x 15mm high. Black in colour with silver top cap.

Cot HK-7791

50¢ ea 10 up 45¢ ea



### Slider Pot Knobs

Jaycar increases their range of these rare slider pot knobs. Five different

ones in all Style 1 and 2 Quality CEM elider knobe to metch their rotary knobs. Supplied with a white line down the centre and

"fingergrip" styling. Size: 23 x 11 x 10mm high. Black in colour. 0.3mm shaft width Cat. HK-7718

\$1.25 ea 10 or more \$1.10 ea 6mm shaft width Cat. HK-7720

\$1.25 ea 10 or more \$1.10 ea



Black body with white border on top and white pointer line down one side, Accepts 6mm shaft width Size: (at base) 17 x 13mm and 13mm high Cat. HK-7725

95¢ ea 10 or more 85¢ ea

85¢ ea



Style 4 Chrome body with single black line across centre of knob. This is the

most conventional style slider pot.
Accepts 3mm width shafts. Size Base: 15 x 9mm x 12mm high Cat, HK-7728 95¢ ea 10 or more



Style 5 Chrome body with rounded corners Size: 17(L) x 10 x 12mm high

95¢ ea 10 or more 85¢ ea





# **Plastic**

A soft vinyl boot measuring approximately 3mm dia x 9mm long with a 2mm dia hole. The boot will slide over the activator of a miniature toggle switch or over the activator of a slide pot. As used on graphic

White in colour. Supplied in a pack of \$2.00



**COUNTRY ORDERS 008 022 888** 

### **Fuses**

M205 (5 x 20mm) QUICK BLOW Cat. SF-2148 100mA Cat SF-2150 125mA Cat. SF-2152 160mA All above 50¢ ea

10 up 45¢ ea Cot SF-2154 250mA Cat. SF-2155 315mA Cat SF-2156 500mA Cat SF-2158 1A Cat. SF-2159 1.25A Cat SF-2160 2A Cat. SF-2162 3A Cat SE-2166 5A

Cat. SF-2167 Cat SF-2168 10A All above 30¢ ea 10 up 25¢ ea

Cat SF-2182

3AG (6.35 x 32mm) QUICK BLOW

6.5A

100mA

35A

Cat SF-2184 150mA Cat. SF-2186 250mA Cat. SF-2188 500mA Cat. SF-2190 Cat. SF-2192 1.5A Cat. SF-2194 2A Cat. SF-2196 зА Cat. SF-2200 54 Cat. SF-2202 7.5A Cat. SF-2204 104 Cat SF-2206 15A Cat. SF-2208 20A Cat. SF-2210 25A

Cat. SF-2212 30A Cat. SF-2214 Cat. SF-2220 50A All above 30¢ ea 10 up 25¢ ea

3AG SLOW BLOW Cat. SF-2224 500mA Cat SF-2226 1A Cat. SF-2228 2A Cat SF-2230 3A

Cat. SF-2232 5A All above \$1.20 10 up \$1.00 ea

5AG 30 amp Replacement type for inverter kit Cat. SF-2235



### **Fuse Packs**

The economical way to buy fuses 3AG PACK

Consists of: 4 x 500må 8 x 1A 6 x 1.5A 2 x 2A 6 x 3A. 4 x 5A. 2 x 7.5A. 4 x 10A Cet SE-2240

#### 40 fuses total value \$12.00 ONLY \$8.95

M205 PACK 5 x 500mA, 10 x 1A, 10 x 2A, 5 x 3A 5 x 5A, 10A Cat. SF-2242 40 fuses \$12.00 value **ONLY \$8.95** 

## **Fuseholders**

IN-LINE Plastic in-line type. As used on car radios. CR. etc. Takes 3AG fuses.

\$1.10 ea 10 or more \$1.00 ea



### 3AG PANEL

Cet S7-2015

MOUNT Panel mount type. Probably the most common type. Accepts 3AG fuses. Panel hole 15mm

Cat. SZ-2020 \$1.40 ea

# 10 or more \$1.25 ea

M205 PANEL

MOUNT M205 panel mount type. Takes M205 fuses (20 x 5mm). Panel hole Cat. SZ-2030

\$1.10 ea 10 or more \$1.00 ea



PC MOUNT 3AG single. Cat. SZ-2034 40¢ ea 10 or more 36¢ ea



#### SAFETY FUSEHOLDER

Fuse retainer is released by simply depressing catch by inserting a screwtriver or any similar tool or object

in to the small rectangular hole on top of the fuseholder. Panel hole 15mm. Cat. SZ-2036 \$1.50 each

10 or more \$1.40 ea



### Electricity Authority Approved Fuseholders

3AG 10 amp 240V chassis mount (32 x 6.35mm) Cat. SZ-2025

\$3.95 ea 10 or more \$3.50 ea M205 6.3A 240V chassis mount. Cat 97 2029

\$2.50 ea 10 or more \$2.25 ea SCHURTER BRAND



### 3AG Fuseclips

The easy way to secure fu PACKET OF 8 Cat. SZ-2022 \$1.20 pkt

10 or more pkts \$1.00 each Pkt of 100

Cat \$7,2023 \$10.95



### Car Blade **Fuses**

Those are used in most new cars They are easy to replace and are our coded for easy identi-5A Orange

fication Cat. SF-2130 Cat. SF-2132 Cat. SF-2134 Cat. SF-2136 Cat. SF-2138

50¢ ea



7.5A Brown 10A Red

15A Blue

20A Yellow

### NF2 Neon

90V pigtail neon, as used in the strobe kits, etc. Cat. SI -2690 50¢ ea

10 or more 40¢ ea 

### Xenon Flash Tube

As used in the strobe kit. Cat. SI -2692 \$4.75 ea



### Low Voltage Bezel

Accente I illinut niches Cat. SL-2620 Cat. SL-2622 GREEN

\$1.65 ea 10 or more \$1.55 each



### Low Voltage Bezel

Includes 12V globe. High quality Panel hole 10mm

Cat. SL-2625 ORANGE 600 available Cat. SL-2626 GREEN

ONLY \$1.95 ea 10 or more \$1.65 each



### 240V Chrome Bezel

Very smart unit. Complete with leads Cat. SL-2632 Cat. SL-2633 BED GREEN

\$1.80 ea 10 or more \$1.70 each



### LED Bezel

Chrome housing, 2 volt Cat. SI -2610 RED COLEM Cet SI -2612

\$1.75 ea 10 or more \$1.60 ea



### 12 Volt Bezel

Red, sealed, 12 volt bezel for any application - small size. Panel hole Cat 91 3940

\$2.20 ea 10 or more \$2.00 ea



### 240V Bezel

Red, sealed, accepts spade lugs or solder. Drill 10mm hole and push in Cat. SI -2630 \$1.20 ea

10 or more \$1.10 ea



### 12 Volt Bezel

Perfect for car alarms. Orange lens which measures 20 x 20mm As used in our Claytons burglar alarm Cat SI -2894

\$1.75



## Mini Lamps

12 & 6 VOLT MINI LAMPS

12 VOLT Cat. SL-2639 65¢ ea

10 or more 59¢ ea 6 VOLT Cat. St -2641 40¢ ea

10 for \$2.50 100 for \$15.00

#### MINIATURE **EDISON** SCREW GLORES

Cat. SL-2656 50¢ ea 10 or more \$45¢ ea



LILLIPLIT GLORES Cat. SL-2650 Cat. SL-2652

40¢ ea

10 or more 35¢ eac



### Globe Holder

Standard MES globe holder Cat St 2658 40¢ ea



#### Car Replacement Globes

Replacement globes for flashing

bezels for oar alarms 1) Most common. 12V push-in metal flange up 2 sides. Used in Red Light, Yellow Light, Pirahana & Cobra. Cat. SL-2638

\$5.50 2) Used in Yellow Light & others

Cat. SL-2637 \$4.50

3) Used in Yellow Light & others.

Cat SI -2636 \$4.50



### Green Panel Indicator

This great new indicator pushes into a 9mm hole in a panel and then a 6 or 12 volt lamp (SL-2639 or SL-2641) pushes into the back and will stay there Economical way if many bezels are needed. Panel hole 9mm. Cat. SL-2616

40¢ ea 10 or more 35¢ ea



### Lead Acid Rechargeable

ideal for alarms or anywhere where constant use depletes batteries quickly. Size: 100(1) x 60(H) 12 VOLT 1.2A/H Cat. SR-2480

\$22.50 12VOLT 4.5A/H 150(L) x 95(H) inc terminals x

65(W)mm Cat. SB-2486 \$43.50



### 12 Volt Battery VR22, EL12

Used in lighters, cameras and more CARBON ZINC Cet SB-2420

PACKET OF 2 \$3.75

### Eveready Red

Cat SB-2354 AA Pkt of 4 \$2.35 Cat. SB-2358 C Pkt of 2 \$1.99

Cat. SB-2362 D Pkt of 2 \$2.40 Cat. SB-2370 9 volt \$2.40



### Watch/Game **Batteries**







Cat. No Silver Hitachi SB-2512 (G13) SB-2510 (G12) SDAA SR43W SB-2510 (G12) SB-2508 (G10) SB-2506 (G 8) SB-2504 (G 5) SB-2502 (G 3) SB-2500 (G 2) SR1120W SR48W SR41W SR726SW

ALKALINE

SR-2516 SB-2514 SB-2518

I R.44 LR-1130

Penlight **NiCads** 

Don't keep wasting money buying throw-away batteries. Step up to NiCad rechargeables SUPERB ROCKET BRAND AA PENLIGHT 450mA Cat SR-2452

\$4.25 ea 10+\$3.85 ea 4 for \$16.00



#### Rechargeable **Batteries** "C" SIZE

1.2 A/H capacity PACKET OF 2

AAA SIZE

180mAh Cat. SB-2454

\$22.50 "D" SIZE 1.2 A/H capas Cat, SB-2456

\$23.95 PACKET OF 2 9 VOLT 100mA capacity - p iond per each

\$23.95

#### PACKET OF 2 \$11.50 Eveready Alkaline

Cat. SB-2380 AAA Pkt of 2 \$3.95 Cat. SB-2382 AA PM of 2 \$3.25 Cat. SR-2386 C Pkt of 2 \$4.50 Cat. SB-2390 D Pkt of 2 \$4.95 Cat. SB-2395 9 volt each \$6.75 Cat. SB-2396 Pkt of 2 \$3.45 Cat. SB-2397 544

\$3.45 \$2.05 \$3.45 \$2.05

WL-1 A76 LR-44 LR-43 \$2.25 LR-1130 \$2.25

\$7.50

Eveready National

206 WL-11 WL-10

393 WL-6

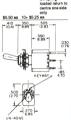
WL-14

G8

### Mini Toggle











Cat. ST-0505 \$5.75 ea 10+ \$5.45 ea



Cat. ST-0506 \$6.75 ea 10+ \$6.40 ea



### **PCB Mount** Mini Toggle

Rated 2A 250V AC









### Standard Toggle

Chrome toggle, on/off indicator plate. Suitable for hobbyist and auto use.

Cat. ST-0570 SPST Body size 26 x 14mm, clearance 20.5mm, mounting hole 12mm \$1.65 ea 10+ \$1.55 ea

Body size 29.5 x 18mm, clearance 23mm, mounting hole 12mm. \$2.10 ea 10+ \$2.00 ea

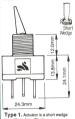


### **Heavy Duty** Centre Off

Huge 10A 125V rating, chrome toggle on/off indicator plate. DPDT centre off. Body size 35 x 20mm, clearance 26mm, mounting hole 12mm. Cat. ST-0576



### 240V 10A Toggle **Switches** Swann seriers 475 with spade lug connections, SPST, Panel hole 12



type 12mm long. Black Cat. ST-0590 \$2.95 ea 10+ \$2.65 ea

Type 2. Actuator is a chrome barrel type 22mm long. Very classy. Cat. ST-0592 \$3.95 ea 10+ \$3.60 ea



### **Snap Action** Keyboard **Switches**

PCB Mount double pole. Suitable for keyboards, security systems, etc. 5 colours. These switches are normally open DPST. When the button is depressed the switch closes, but only

while the button is held down Cat. SP-0720 Cat. SP-0721 Black Cat. SP-0722 Vellow Cat. SP-0723 Cat. SP-0724 Green

\$1.00 ea 10+ 90+ 69



### Miniature Pushbutton

6mm mounting hole. 125V 3 amp rating, Momen Cat, SP-0710 Push-on red 55¢ ea 10+ 50¢ ea Car SP-0711 Push-on Black 55¢ ea 10+50¢ ea

\$1.00 ea 10+ 90¢ ea



### Pushbutton

Rated 3A 125V AC Push-on Momentary SPST Cat. SP-0716 \$1.90 ea 10+ \$1.70 ea

Push-on/Push-off SPST Cat. SP-0718 \$1.90 ea 10+ \$1.70 ea





### Illuminated 240V Rocker Switch

Swan series 51 type. DPDT 240V 15 amp illuminated with spade lug connections. Panel cut out 28.6mm x 22.3mm. RED as used in ETI5000 power

amp Cat. SK-0982



style Cat. SK-0980 \$3.95 ea 10+ \$3.50 ea



### Mains Rated Rocker **Switches**

Two very classy mains rocker switches. These are employ than normal rockers and are perfect for amplifiers, etc. The illuminated version is supplied in our Playmaster 60/60 amplifier kit. Size: 21 x 15mm. Panel cut out size 13 x 19.5mm. TYPE 1

SPST 5A Black actuator Cat. SK-0984 \$2.50 ea 10+ \$2.25 ea TYPE 2

ILUMINATED ACTUATOR COUL BY 340M Cat. SK-0985

\$3.95 ea 10+ \$3.50 ea WAS \$7.50 LAST YEAR



### Illuminated Microswitch LED **Rocker Switch**

Swan type 41 series. SPST 12 volt with LED (red) mounted in actuator. Very nice switch suited for driving lights etc. Panel cutout 28.5mm x 11.7mm. Button style flat.

\$3.95 ea 10+ \$3.50 ea



### Rocker Switch

DPDT black actuator. Size 22(L) x 13(W)mm. Mounting holes 36mm apart. Cat. SK-0975 90¢ ea 10+80¢ ea



### 12 Volt Illuminated Push On/Off

Similar to the one used in the Red Light Car Alarms and in our Flasher Dete kit (see kit section) RED Cat. SP-0742 YELLOW Cat. SP-0740

\$15.95 ea WAS \$21.50





SPOT 240V at 1.5 amp. Size 29 x 10mm x 11(H)mm (body only). Supplie with actuator 60mm long which can be removed. Cat. SM-1040

\$2.35 es 10+ \$2.20 es



### DIL **Switches**

Dual in-line (fits in IC socket), self 4 WAY (8 pin DIL pkg) Cat. SM-1020 \$2.20 ea 10+ \$2.10 ea 8 WAY (16 pln DIL pkg) Cat SH 1004 \$2.75 ea 10+ \$2.50 ea



### Mini Reed Switch

NORMALLY OPEN Cat. SM-1002 \$1.20 ea 10+ \$1.10 ea

REED COIL TO SUIT Cat. SM-1004 \$1.20 ea 10+ \$1.10 ea



### Mercury Switch

Glass encapsulated 125V 3 amp AC. \$2.25 ea 10+ \$2.05 ea







### Barrel Kev Switch

For high security installations. 4 pole 2 position. Cat. SM-1033 \$10.95 es 10+ \$10.50 es



### Barrel **Key Switch** Cam Lock

Made from zinc die cast. Used in Alarms, petty cash boxes, etc Cat. SM-1029 \$6.95 ea



### Keyswitch Standard Type

Solid barrel type. 19.5mm mountin hole. SPST action. Supplied with to



### **Barrel Kev** Switch

Can be used in your telephone to amp, 2 keys supplied Cat. SM-1027

\$9.95 10+ \$8.95 ea



### **Alarm Tamper** (Pin) Switch

Full details alarm section Cat. LE-8775 \$1.25 ea 10+ \$1.15 ea

### Double Pole Pushbutton

Dated 2A 125V AC Alternate action Cat. SP-0712

\$5.50 ea 10+ \$5.30 ea Cat. SP-0713 Alternate action SPDT

\$2.85 ea 10+ \$2.60 ea Cat SP-0714 Mo action DPDT





### Pushbutton

SPST Push on or off Here's a versatile pushbutton! It comes in a push off format but can easily be configured for push on

application.
Genuine heavy duty type. Rated 10 amps @ 125V. Black switch with red actuator.



### Heavy Duty Footswitch

ideal for fuzzboxes, or anywhere a heavy duty pushbutton switch is required. 250V 6 amp. Hole size 12mm. Size 29 x 18 x 24(D) mm. Cat. SM-1010

#### \$13.50 ea



### Sealed PCB Rotary Switches

These switches have a removable ring with tab which can be inserted into the switch several ways to your particular requirements. For example if you requirements. For example, if you purchased a 1 pole x 12 way (max) switch you could convert it to, say, 1 pole 7 way between stops. They have a standard 1/4" shaft.

1 POLF Configured from 1 pole 2 position through to 1 pole 12 position. Cat. SR-1210

From 2 pole 2 position to 2 pole 6 position Cat. SR-1212

3 POLE From 3 pole 2 position to 3 pole 4 position Cat. SR-1214

4 POLE 4 pole, 2 and 3 positio Cat. SR-1216

## \$2.75 ea







### Mains Rotary

240V 3 amp DPST with 1/4" shaft. Size 27 x 16 x 16(D)mm. Cutout hole 12mm. Cat. SR-1280

\$2.95 ea 10+ \$2.75 ea



### Slide Switches

Jaycar new series slide switches have silver plated contacts, contact ratings of 0.3A @ 100V minimum, 25 milli-ohm contact resistance, 100 Meg plus insulation resistance (at 500V DC) and will endure about 10,000 cycles before they clag out.

Sub-miniature DPDT (PCB mount) Cat. SS-0823 90¢ ea 10+ 80¢ ea



miniature DPDT (Panel Mount) Break before make (non shorting Cat. SS-0852

60¢ ea 10+ 55¢ ea



Sub-ministure DPDT (Spun aluminium Cat. SS-0812 90¢ ea 10+80¢ ea



Miniature DPDT (Panel mount) Cat. SS-0821 90¢ ea 10+ 80¢ ea





\$2.50 ea 10+ \$2.25 ea



Cat. SS-0850 10+ \$1.40 ea \$1.50 ea



# Bedlamp

Single Pole Cat. SP-0736 \$1.50 ea

10+\$1.40 ea



\$2.25 ea 10+ \$2.05 ea

### Jaycar Introduces the Easy Way to Buy 1/4 watt Resistors



packs of 1/4W 5% resistors available.

Each pack contains 10 of each value, and packs on

A GREAT WAY TO NEVER BE OUT OF THAT ODD RESISTOR AND SAVE A PACKET AT THE SAME TIME!!

	Α	В	С	D	E	F		Α	В	С	D	E	
OR1 OR2	2				RR-3206		1K6			•	_	_	A. 1/4W Metal Film
OR4	7			RR-2500			1K8 2K0	RR-0579	RR-158			RR-3304	1% 50ppm 9¢ each -
OR8					RR-3218 RR-3219		2K2	RR-0580 RR-0581	RR-158	RR-2282	RR-2782	RR-3306	100 up 7¢ each
1R0 1R1		RR-1502	RR-2002	RR-2502	RR3220	RR-3340	2K7 3K0	RR-0582 RR-0583	RR-1586	RR-2284	RR-2784	RR-3308	B. 1/4W Carbon Fil
1R2 1R3		RR-1504	RR-2004	RR-2504		RR-334	3K3	RR-0584	RR-1588	8 RR-2286	RR-2786	RR-3310	5% 5¢ each -
1R5		RR-1506	RR-2006	RR-2506	RR-3230	RR-3342	3K6 3K9	RR-0585 RR-0586	RR-1590	RR-2288			100 up 4¢ each
1R6 1R8		RR-1508	RR-2008	RR-2508	RR-3232	RR-3343	4K3 4K7	RR-0587 RR-0588	RR-1592			RR-3312	C. 1/2W Carbon File
2R0 2R2		RR-1510	RR-2010		RR-3234	RR-3344	5K1	RR-0589 RR-0590	RR-1594			HH-3312	5% 7¢ each - 100 up 6¢ each
2R4 2R7		RR-11512			RR-3236	RR-3345	6K2	RR-0591			RR-2792		
3R0 3R3							7K3	RR-0592 RR-0593	RR-1596		RR-2794		D. 1W Carbon Film 5% (RR-2502/2524)
3R6		RR-1514	RR-2014		RR-3238	RR-3346	9K1	RR-0594 RR-0595	RR-1598	RR-2296	RR-2796		20¢ each -
3R9 4R3		RR-1516	RR-2016	RR-2516	RR-3240	RR-3347	10K	RR-0596 RR-0597	RR-1600	RR-2298	RR-2798		100 up 17¢ each 1W Carbon Film 5%
4R7 5R1		RR-1518	RR-2018	RR-2518	RR-3242	RR-3348	12K	RR-0598	RR-1602	RR-2300	RR-2800		(RR-2526/2778)
5R6 6R2		RR-1520	RR-2020	RR-2520	RR-3244	RR-3349		RR-0599 RR-0600	RR-1604	RR-2302	RR-2802		16¢ each - 100 up 14¢ each
6R8 7R5		RR-1522	RR-2022	RR-2522	RR-3246	RR-3350	16K 18K	RR-0601 RR-0602	RR-1606	RR-2304	RR-2804		
8R2		RR-1524	RR-2024	RR-2524	RR-3248	RR-3351	20K 22K	RR-0603 RR-0604	RR-1608	RR-2306	RR-2806		E. 5W Wirewound 65¢ each -
9R1 10R	RR-0524	RR-1526	RR-2026	RR-2526	RR-3250	RR-3352	24K 27K	RR-0605 RR-0606	RR-1610				10 up 60¢ each
11R 12R	RR-0525 RR-0526	RR-1528	RR-2028	RR-2528	RR-3252	RR-3353	30K	RR-0607			RR-2808		F. 10W wirewound
13R 15B	RR-0527 RR-0528	RR-1530	RR-2030	RR-2530			33K 36K	RR-0608 RR-0609	RR-1612		RR-2810		\$1.30 each -
16R 18R	RR-0529				RR-3254	RR-3354	39K 43K	RR-0610 RR-0611	RR-1614	RR-2312	RR-2812		10 up \$1.20 each
20R	RR-0530 RR-0531	RR-1532	RR-2032	RR-2532	RR-3256	RR-3355	47K 51K	RR-0612 RR-0613	RR-1616	RR-2314	RR-2814		
22R 24R	RR-0532 RR-0533	RR-1534	RR-2034	RR-2534	RR-3258	RR-3356	56K 62K	RR-0614 RR-0615	RR-1618	RR-2316	RR-2816		
27R 30R	RR-0534 RR-0535	RR-1536	RR-2036	RR-2536	RR-3260	RR-3357	68K	RR-0616	RR-1620	RR-2318	RR-2818		, seed
33R 36R	RR-0536 RR-0537	RR-1538	RR-2038	RR-2538	RR-3262	RR-3358	75K 82K	RR-0617 RR-0618	RR-1622	RR-2320	RR-2820		No.
39R 43R	RR-0538 RR-0539	RR-1540	RR-2040	RR-2540	RR-3264	RR-3359	91K 100K	RR-0619 RR-0620	RR-1624	RR-2322	RR-2822		
17R	RR-0540	RR-1542	RR-2042	RR-2542	RR-3266	RR-3360	110K 120K	RR-0621 RR-0622	RR-1626	BB-2324	RR-2824		
51R 56R	RR-0541 RR-0542	RR-1544	RR-2044	RR-2544	RR-3268	RR-3361	130K	RR-0623 RR-0624	RR-1628	RR-2326			psc.
32R 38R	RR-0543 RR-0544	RR-1546	RR-2046	RR-2546	RR-3270	RR-3362	160K	RR-0625			RR-2826		EST
75R 82R	RR-0545 RR-0546	RR-1548	RR-2048				200K	RR-0626 RR-0627	RR-1630	RR-2328	RR-2828		
1R	RR-0547			RR-2548	RR-3272	RR-3363	220K 240K	RR-0628 RR-0629	RR-1632	RR-2330	RR-2830		
100R	RR-0548 RR-0549	RR-1500	RR-2050	RR-2550	RR-3274	RR-3364	270K	RR_0630 RR-0631	RR-1634	RR-2332	RR-2832		
120R 130R	RR-0550 RR-0551	RR-1552	RR-2052	RR-2552	RR-3276	RR-3365	330K 380K	RR-0632 RR-0633	RR-1636	RR-2334	RR-2834		
150R 160R	RR-0552 RR-0553	RR-1554	RR-2054	RR-2554	RR-3278	RR-3366	390K	RR-0634	RR-1638	RR-2336	RR-2836		S
80R	RR-0554 RR-0555	RR-1556	RR-2056	RR-2556	RR-3280	RR-3367	430K 470K	RR-0635 RR-0636	RR-1640	RR-2338	RR-2838		
220R	RR-0556	RR-1558	RR-2058	RR-2558	RR-3282	RR-3368	510K 560K	RR-0637 RR-0638	RR-1642	RR-2340	RR-2840		
240R 270R	RR-0557 RR-0558	RR-1560	RR-2260	RR-2760	RR-3284	RR-3369	620K	RR-0639 RR-0640	RR-1644	RR-2342	RR-2842	- 1	
00R 30R	RR-0559 RR-0560	RR-1562	RR-2262		RR-3286		750K 820K	RR-0641 RR-0642					<b>Æ</b> ≥
60R 190R	RR-0561 RR-0562	RR-1564	RR-2264				910K	RR-0643	RR-1646	RR-2344	RR-2844		
30R	RR-0563				RR-3288	RR-3371	1M0 1M2	RR-0644	RR-1648 RR-1650	RR-2346 RR-2348	RR-2846 RR-2848		X //
10R	RR-0564 RR-0565	RR-1568	RR-2266			RR-3372	1M5 1M8		RR-1652 RR-1654	RR2350 RR-2352	RR-2850 RR-2852		
20R	RR-0566 RR-0567	RR-1570	RR-2268	RR-2768	RR-3292	RR-3373	2M2 2M7		RR-1656 RR-1658	RR-2354	RR-2854		
80R 50R	RR-0568 RR-0569	RR-1572	RR-2270	RR-2770	RR-3294	RR-3374	3M3		RR-1660	RR-2356 RR-2358	RR-2856 RR-2858		13
20R	RR-0570	RR-1574	RR-2272	RR-2772	RR-3296	RR-3375	3M9 4M7		RR-1662 RR-1664	RR-2360 RR-2362	RR-2860 RR-2862		4
K0	RR-0571 RR-0572	RR-1576	RR-2274	RR-2774	RR-3298		5M6 6MB		RR-1666 RR-1668	RR-2364 RR-2366	RR-2864 RR-2866		8/
(2	RR-0573 RR-0574	RR-1578	RR-2276		RR-3300		8M2 10M	RR-0660	RR-1670 RR-1672	RR-2368 RR-2370	RR-2868		<b>X</b> /
(3	RR-0575 RR-0576		RR-2278		RR-3302		OTE	117-0000	nn-10/2	nrt-23/0	RR-2870		//
400			mm-22/8	nn-e//8	nn-3302								<b>'</b>

### Direct Import **PCB Mounting Potentiometers** with Imperial Standard

Shaft & Bushings

After suffering enormous supply frustration in recent years we have decided to After suffering enormous supply flustifiation in recent years we have excided to detect incord quality posteriorisets so use rigid engineering soperlications. The potentiorisets are full size of 2-mm diameter types - not the dinity 16mm ones that you sometimes see these days. They also have genuine 6-25mm (14in) shafts with a flat machined 25% of the diameter for grubscrews or interference fit know nourising. The shaft is a generous 38mm long. The bush is a 487 92 T.H.D. type which we believe is necessary for good fixing to a panel. Many post these days have 7mm and less - bushes.

which we delive as modeway any amount capability. The pins are nave 7mm and less - bushes. Another important feature of the pots is their PCB mount capability. The pins are rigidly mounted on phenotic with the centre pin offset from the two outer terminals. When soldered into a PCB, the pot is quite rigidly held on its own. Dual gang pots and the pinch of the pi are held in 6 places and require no extra mechanical mounting assistance. The pi are large enough to terminate screened cable, etc., if the job requires hard wiring. are arge enough to terminate screened cause, etc., it me job requires hard with An engineering drawing appears below. You may safely use it to design PCB artwork etc., as we have standardised on this design.

CUSTOMERS PLEASE NOTE: While we are introducing stock of our new note there will naturally be a transition period where old stock will remain. This may not be a cause for concern but if it is, please ASK for the new product. (The cat numbers will be the same )

### Linear Double Gand

DD-2750 25k RP-3760

50k

RP-3706		\$3.25 ea
RP-3708 RP-3710	50k	10 or more
RP-3712 RP-3716		\$3.00each
RP-3718	1M	

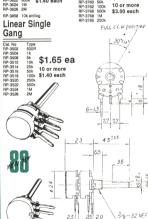
Log Double Gang

\$3.25 ea

### Log Single Gang

-3604	1k	
-3608		
-3610		
-3614	25k	A4 AF
-3616		\$1.65 ea
-3618		
-3620		10 or more
-3622	500k	\$1.40 each

RP-3624 1M



### Wire Wound

3 WATT - WITH SOLDER I LIG Cat. RP-3954 Cat. RP-3956 Cat. RP-3958

\$7.50 ea

10 or more \$7.20 ea

### Vertical Miniature Trimpots 10mm

OPEN I	CARBO	N TYPE	
Cat. No	Type	FO-	
RT-4030	100 ohm	50¢	ea
	200 ohm		
RT-4033	500 ohm	10 or m	ore
RT-4034	1k	45¢ ea	
RT-4035	2k		
RT-4037	5k		
RT-4039	10k	PIN PID	CH
RT-4040	20k		
RT-4042	50k		1m
RT-4043	100k	10mm	•
RT-4044	200k C	-	_
RT-4046	500k	40%	
RT-4047	1M	77	
RT-4048	2M	7	72

### Vertical Miniature **Trimpots 5mm**

OPEN	CARBO	N TYPE	
Cat. No	Type		
RT-4004	100 ohm		
RT-4006	250 ohm	50¢	02
RT-4008	500 ohm	30¢	Ca
RT-4010	1k	10 or n	nore
RT-4012	2k		1010
RT-4014	5k	45¢ ea	
RT-4016	10k		
RT-4018	20k		
RT-4020	50k		
RT-4022	100k	PIN PITCH	
RT-4024	250k		
RT-4026	500k	•	2.5m
RT-4028	1M	• •	
RT-4029	2.2M	5mm	



### Horizotal Mini Trimpot

at. No	Туре	004.00
T-4302	100 ohm	80¢ ea
T-4304	500 ohm	10 or more
T-4306	1k	
T-4308	2k	70¢ each
T-4310	5k	
T-4312	10k	PIN PITCH
T-4314	20k	5mm
T-4316	50k	
T-4318	100k	10mm
T-4320	200k	
T-4324	500k	-
T-4328	1M	

### Slider Pots -

45mm TYPE DD 0004 RP-3912

RP-3910

50k linear 50k log \$3.95 ea \$3.50 10 or more

60mm TYPF CAT, RP-3938 101100

\$5.50 ea 10 or more \$5.00 ea



### Log Switch Pots

Rotary log switch pots with DPST switch and 6.35mm (1/4") shaft with RP-3806 1k \$2.95 ea 10 or more RP-3814 50k RP-3818 100k \$2.70 ea



BT-4602 100 oh RT-4604 500 ohn RT-4608 1 k \$1.95 ea RT-4610 2k RT-4612 5k RT-4614 10k 10 or more RT-4616 20k \$1.80 ea DT-4619 50V RT-4620 100k RT-4622 1M

## Sub Miniature

Control Just like the type used in small rade for on/off and volume, includes knob and screws.

\$2.25 ea 10 or more



### Cassette **Player** Replacement

ideal replacement volume and on/off switch for car stereos etc. Dual concentric 50k log, 50k lin with a pushbutton SP swi Total length 70mm, 18mm diameter

\$9.95



### Electrolytic Axial (RT)

		1-9	10+	
Cat. RE-5801	0.47uF 63V	35¢	32e	
Cat. RE-5802		35¢	32¢	
Cat. RE-5804	2.2uF 63V	35€	32¢	
Cat. RE-5810	3.3uF 25V	40e	36c	
Cat. RE-5815	4.7uF 25V	40e	36e	
Cat. RE-5820	4.7uF 63V	40e	36e	
Cat. RE-5832	10uF 25V	35e	32¢	
Cat. RE-5840	10uF 63V	46¢	43¢	
Cat. RE-5855	25uF 25V	35e	32e	
Cat. RE-5860	25uF 63V	36¢	34¢	
Cat. RE-5864	47uF 16V	35¢	32e	
Cat. RE-5865		35¢	32e	
Cat. RE-5875	47uF 63V	45¢	42e	
Cat. RE-5878	68uF 64V	50e	40e	
	100uF 16V	45e	40¢	
Cat. RE-5880	100uF 25V	55¢	50¢	
Cat. RE-5885	100uF 63V	70¢	65¢	
Cat. RE-5888	100uF 250V	\$1.00	80¢	
Cat. RE-5892	220uF 16V	50¢	45¢	
Cat. RE-5895	220uF 25V	45¢	40e	
Cat. RE-5897	220uF 63V	\$1.00	90¢	
Cat. RE-5901	470uF 16V	80¢	75e	
Cat. RE-5903	470uF 25V	\$1.30	\$1.20	
Cat. RE-5905	470uF 50V	\$1.90	\$1.80	
Cat. RE-5908	680uF 40V	\$1.20	\$1.00	
Cat. RE-5909	680uF 63V	\$1.50	\$1.30	
Cat. RE-5912	1000uF 12V	\$1.00	90¢	
Cat. RE-5915	1000uF 25V	\$1.40	\$1.30	
Cat. RE-5918	1000uF 35V	\$1.80	\$1.70	
Cat. RE-5920	1000uF 63V	\$2.85	\$2.65	
Cat. RE-5930	2500uF 16V	\$1.85	\$1.75	
Cat. RE-5935	2500uF 25V	\$2.95	\$2.75	
Cat. RE-5940	2200/2500uF		\$3.00	
Cat. RE-5945	2500uF 60V	\$3.50	\$3.25	
Cat. RE-5970	4700uF 16V	\$2.50	\$2.00	
Cat. RE-5975	4700uF 35V	\$5.75	\$5.45	



### RBLL Low Leakage Electrolytics

Cat No.	Туре		1-9	10+
RL-6402	0.1uF 50V		32e	30e
RL-6404	0.15uF 50V		32¢	30e
RL-6406	0.22uF 50V		32¢	30e
RL-6408	0.33uF 50V		32¢	30e
RL-6410	0.47uF 50V		32¢	30e
RL-6412	0.68uF 50V		32e	30e
RL-6414	1.0uF 50V		35€	32e
RL-6418	1.5uF 50V		35e	32e
RL-6420	2.2uF 50V		35e	32e
RL-6422	3.3uF 50V		35e	32¢
RL-6424	4.7uF 50V		38e	35¢
RL-6426	6.8uF 50V		40e	36¢
RL-6428	10uF 50V		45e	42¢
RL-6430	22uF 50V		45e	42¢
RL-6432	33uF 50V		45e	42¢
RL-6434	47uF 50V		65¢	60¢
RL-6436	100uF 25V		80e	72¢
		-		11.0



# Electrolytic RB (PC Mount)

110 (	O IIIO	unit		
Cat. No	Туре	1-9	10+	
RE-6020	U47 63V	30e	28¢	
RE-6030	1UF 50V	28¢	26¢	
RE-6032	1U 63V	32e	30e	
RE-6036	2.2uF 25V	28¢	26e	
RE-6042	2U2 63V	30e	28¢	
RE-6045	3.3uF 16V	28¢	26¢	
RE-6050	4U7 25V	28€	26¢	
RE-6060	4U7 50V	36¢	34¢	
RE-6066	10uF 16V	28¢	26¢	
RE-6070	10uF 25V	30¢	28€	
RE-6075	10uF 63V	35¢	33€	
RE-6080	22uF 50V	36¢	34¢	
RE-6090	25uF 25V	30¢	28¢	
RE-6095	33uF 25V	35¢	33¢	
RE-6100	47uF 16V	32¢	30¢	
RE-6110	47uF 25V	35¢	33¢	
RE-6122	47uF 63V	36¢	34¢	
RE-6130	100uF 16V	35¢	33¢	
RE-6140	100uF 25V	38¢	36€	
RE-6150	100uF 63V	75¢	65¢	
RE-6158	220uF 16V	45¢	40¢	
RE-6160	220uF 25V	55¢	50¢	
RE-6180	220uF 50V	85¢	80¢	
RE-6188	330uF 16V	65¢	55¢	
RE-6190	330uF 25V	78¢	72¢	
RE-6192 RF-6194	330uF 63V	\$1.20	\$1.10	
HE-6194 RF-6195	470uF 16V	60¢	55¢	
	470uF 25V	78¢	72e	
RE-6210 RE-6220	470uF 63V	\$1.50	\$1.40	
RE-6220	1000uF 16V	\$1.00	90e	
	1000uF 25V	\$1.25	\$1.15	
RE-6236 RE-6240	1000uF 63V	\$1.95	\$1.85	
RF-6240	2500uF 25V	\$1.85	\$1.75	
	3300uF 25V	\$3.00	\$2.50	
RE-6243	4700uF16V	\$2.50	\$2.00	



### Unbelievable Electrolytic Buy

Through Jaycar's surplus stock buying scheme, we have purchased a substantial quantity of an electro that would normally be out of reach of the hobbyists pocket. This electro is made in Germany by ROEDERSTEIN!

6,800uF 63V LONG LIFE

### ONLY \$7.50!!

That's right ROEDERSTEIN brand long life, high ripple current etched electrodes, screw terminals - all class! And at a price below "Talwanese". These are

absolutely fantastic for power supplies for high power amps, etc. Electrical to DIN 41332 Tolerance -10 +50% Dimensions 50(D) x 80(H)

Dimensions 50(D) x Terminal M5 screw QUANTITY DISCOUNTS 1 - 5 \$7.50

1 - 5 \$7.50 6 - 10 \$7.00 11 - 24 \$6.50 25 - 99 \$6.00 100+ \$5.75 Cat. RN-6712

\$7.50

# Electrolytic Pack

Values range from 1uF to 470uF. Voltages from 16 to 63.

Cat. RE-6250 PACK OF 55 \$6.50

10+ \$5.85

### RG Chassis Mount

Cat. No. Type 1.9 10+ RU-6708 40000F75V \$13.50 \$12.50 RU-6710 80000F75V \$17.75 \$17.25 Size RU-6706 63 x 39mm Supplied with mounting bracket

### **RP Electrolytics**

Cat. No. Type 1-9 10-RL4-708 2500-F80V \$ 8.50 \$ 8.10 RL4-709 5000-F80V \$ 8.50 \$ 8.75 RL4-720 5000-F40V \$ 1.50 \$ 17.00 PC board mount with orientation/support pin Size RL4-706 55 x 30mm Size RL4-706 42 x 26mm



### Hi Quality RP Electrolytics (PC Mount)

A range of three Japanese made Hi quality RP capacitors with PC pin style terminals. These prices represent a considerable saving on normal prices. 2500uF 35V 30(H) x 22(W)mm Cat. RE-6241

1-9 \$2.50 10+ \$2.00 4700uF 35V 32(H) x 30(W)mm

Cet. RE-6244 1-9 \$5.75 10+ \$5.00 15,000uF 16V 32(H) x 35(W)mm





### Bi-Polar RB Electrolytic



### 100 Volt Greencaps

Metallised Polyester C= BG-5010 0.0010E 18 220 Cat. RG-5012 0.002uF 1N2 220 Cat. RG-5015 0.0020F 1N5 22¢ Cat. RG-5018 0.0018uF 1N8 Cat. RG-5018 0.0018UF 1N8 Cat. RG-5022 0.0022uF 2N2 Cat. RG-5027 0.0027uF 2N7 22¢ Cat. RG-5033 0.0033uF 3N3 Cat. RG-5039 0.0039uF 3N9 22¢ 220 Cat. RG-5047 0.0047uF 4N7 Cat. RG-5050 0.0056uF 5N6 22# Cat RG-5050 0.00560F 5N6 22¢ Cat. RG-5060 0.0082uF8N2 Cat. RG-5065 0.01uF 10N 22¢ Cat. RG-5070 0.012uF 12N 220 Cat. RG-5070 0.0120F 12N Cat. RG-5075 0.0150F 15N Cat. RG-5080 0.0180F 18N 220 224 220 Cat BG-5085 0.022uF22N Cat. RG-5090 0.027uF 27N 226 Cat. RG-5095 0.033uF 33N 200 254 Cat. RG-5100 0.0330F 39N Cat. RG-5100 0.03507 5514 Cat. RG-5105 0.047uF 47N Cat. RG-5110 0.056uF 56N 25¢ Cat. RG-5115 0.068uF 68N Cat. RG-5120 0.082uF 82N 300 304 Cat. RG-5125 0.1uF 100N Cat. RG-5130 0.12uF 120N 200 304 Cat. RG-5130 0.120F 120N Cat. RG-5135 0.15uF 150N Cat. RG-5140 0.18uF 180N 364 334 404 454 Cat. RG-5145 0.22uF 220N 404 Cat. RG-5150 0.27uF 270N Cat. RG-5153 0.33uF 330N 454 404 404 450 Cat. RG-5153 0.33UF 330N Cat. RG-5159 0.39UF 390N Cat. RG-5165 0.47UF 470N Cat. RG-5166 0.56UF 560N 504 90e 704 75e 604 Cat. RG-5168 0.68uF 680N \$1.25 \$1.15



### 630 Volt Greencap

#### Metallised Polyester

Cat. RG-5201 0.01uF 10N 5Oe 450 Cat. RG-5202 0.022uF 22N Cat. RG-5203 0.033uF 33N 954 gn/s Cat. RG-5205 0.047uF 47N Cat. RG-5210 0.1uF 100N 95e \$1.30 Cat. RG-5222 0.22uF 220N Cat. RG-5233 0.33uF 330N Cat. RG-5247 0.47uF 470N \$1.60 \$1.50 \$1.80



### Greencap Pack

60 top quality prime spec gre From 0.001uF to 0.22uF, all 100V Cat BG-5100 \$7.95

60 in PACK 10+ \$7.50





Don't miss this bargain! This pack contains approximately 150 assorted capacitors.

Not junk values, most are normal stock lines. Here's

what you get RT Electro

1uF, 4.7uF, 25uF, 100uF, 220uF, 470uF most 63V, 10.000uF 16V 1uF, 2.2uF, 25uF, 47uF 100V 0.0022uF, 0.01uF, 0.22uF, DD Electro Greencap 630V 0.022uF. 0.1uF Greencan

4.7pF, 47pF, 220pF, 470pF, Ceramic 0.0221-5 220pF, 820pF, 2200pF 330pF, 470pF, 680pF -PLUS LOTS MORE Polystyrene 1kV Ceramic

### 150 PRIME SPEC CAPACITORS

FOR \$10.00 That's only 6.6 cents each!! **SAVE 84%** 

Cat RF-6260 At our current prices these caps are worth \$61.00 "We reserve the right to make changes to this pack if stock shortages occur.



### Mixed Electrolytic Capacitor

Another absolute bargain. This pack contains approimately 80 assorted RB/RT style electrolytics Most are standard stock lines. Here is what a typical pack contains

UF VALUES 1, 2.2, 10, 22, 25, 47, 100, 150, 220, 470, 680, 4700, 10,000

6.3. 10. 16. 25, 35, 40, 50, 63, 250 A great asset for your parts bin

#### **OVER 80 CAPACITORS** FOR \$10

That's only 12.5¢ each. Our cheapest stock electro costs 28c, and some supplied in this pack cost as

We reserve the right to make changes to this pack if stock shortages occur Cat. RE-6280



### Precision Capacitor Pack

1 & 2%

Stock up now! These are normally \$3 to \$4 each. Values range from 220pF to 0.22uF. We supply two of each value up to 7 different values. Most are 1%, with some 2%.

PACK OF 20 CAPACITORS Cat. BG-5198

\$12.50

### Super Capacitor

Cat B11.6700 0.047F 5 Volt

\$3.75

10 up \$3.50 each



### Mains 250V AC Capacitors

Cat. No Type RG-5250 0,01uF 90¢ 854 RG-5250 0.010F RG-5251 0.022vF RG-5252 0.033vF RG-5253 0.047vF 908 \$1.00 90¢ \$1.00 \$1.20 RG-5254 0.1uF RG-5256 0.22uF RG-5257 0.47uF \$1.05



### Crossover Capacitors

We have a small quantity of capacitors suitable for crossovers. They are vellow Polycarbonate types. which are extremely hard to find these days

Cat. RG-5183 4.7uF 250V \$5.50 \$5.00 Cat. RG-5185 5.6uF 100V \$5.50 \$5.00

### 14 Pin Dual In-Line Decoupling Capacitor

This is a 0.02uF very low inductance capacitor designed to mount OVER or UNDER an IC to help decouple noise hash from supply lines. The "MICRO Q" requires no P.C.D. redesign whatsoever and can be retrolitted OVER existing

Cat. RC-5450 1.0 \$1.50



03663 2030 **ELBOURNE - CITY** 

### 50 Volt Coromio NDO 100/

Cat. No. 7 pps  R-5500 1 pfs  R-5500 2 pfs	Ceraiiii	C NPO 10%
R-0-500 126F R-0-5200 100pF R-0-500 126F R-0-500 126F R-0-500 120pF R-0-	Cat No. Type	Cat No. Tune
R-0-5001 1-50 F R-0-5005 1-500F R-0-5005 1-500F R-0-5000 1-5000		
R-5502 1.56		
R-0-500 1 2-6 F R-0-500 2 200-F R-0-500 2 2-6 F R-0-500 2 200-F R-0-500 2 200-		
R-0500 22/E R-0500 200F R-0500 200F R-0500 27/E R-050		
Riccioto 2.7/sec no. 2009 2006 F Riccioto 3.10		
R-GS00 24-6 R-GS00 2006F R-GS07 34-6 R-GS00 2006F R-GS07 34-6 R-GS00 2006F R-GS00 64-7 R-GS00 2006F R-GS00 64-7 R-GS00 2006F R-GS00 64-7 R-GS00 2006F R-GS01 64-7 R-GS00 2006F R-GS01 64-7 R-GS00 2006F R-GS01 2006F R-GS		
R-05007 3-96-F R-05009 909F R-05009 909F R-05008 47-9F R-05008 47-9F R-05009 47-9F R-05009 809F		
RG-5009 4.7pF RC-5002 470pc RG-5009 5,6pF RC-5003 960pc RG-5010 6,6pF RC-5003 960pc RG-5010 6,6pF RC-5003 960pc RG-5011 10pF RC-5000 1000pc RG-5011 10pF RC-5000 2000pc RG-5011 10pF RC-5000 2000pc RG-5011 50pF RC-5000 2000pc RG-5011 50pF RC-5000 2000pc RG-5011 50pF RC-5000 2000pc RG-5010 50pF RC-5000 8000pc RG-5010 50pF RC-5000 000pc RG-5010 50pF RC-5000 000pc RG-5010 50pF RC-5000 000pc RG-5010 50pF RC-5000 000pc RG-5010 50pF RC-5000 000pc		
RG-5009 6-6F RC-5033 5900pt RG-5030 600pt RG		
RC-5310 6.8pF RC-5334 680pc RC-5311 8.2pF RC-5335 600pc RC-5312 6.0pF RC-5335 600pc RC-5312 6.0pF RC-5335 600pc RC-5314 15pF RC-5345 600pc RC-5314 15pF RC-5345 600pc RC-5315 20pF RC-5345 600pc RC-5316 20pF RC-5347 600pc RC-5316 20pF RC-5345 600pc RC-5316 20pF RC-5345 600pc RC-5316 20pF RC-5345 600pc RC-5326 60pF RC-5345 600pc RC-5326 60pF RC-5345 600pc		
RC-5311 82pF RC-5355 820pc RC-5312 10pF RC-5355 820pc RC-5312 10pF RC-5356 2200pF RC-5314 15pF RC-5342 2300pF RC-5314 15pF RC-5342 2300pF RC-5316 25pF RC-5345 5800pF RC-5317 27pF RC-5345 5800pF RC-5317 20pF RC-5345 6800pF RC-5316 30pF RC-5347 8200pF RC-5316 30pF RC-5346 0.01pF RC-5316 30pF RC-5346 0.01pF RC-5316 30pF RC-5346 0.01pF RC-5316 30pF RC-5346 0.01pF RC-5326 68pF RC-5356 0.004pF		
RC-5312 100F RC-5338 1000pF RC-5310 2000pF RC-5310 2000pF RC-5310 2000pF RC-5310 2000pF RC-5310 410pF RC-5312 3000pF RC-5314 15pF RC-5314 500pF RC-5314 4700pF RC-5316 200pF RC-5316 200pF RC-5316 200pF RC-5317 2000pF RC-5317 RC-5317 2000pF RC-5317 RC-53		
RC-5313 12pF RC-5340 22000pF RC-5314 590 RC-5314 590 RC-5314 590 RC-5314 590 RC-5316 590 R		
RC-5314 156F RC-5342 33000F RC-5316 47000F RC-5316 220F RC-5344 47000F RC-5317 820F RC-5316 88000F RC-5317 820F RC-5316 88000F RC-5317 820F RC-5326 88000F RC-5321 860F RC-5324 80000F RC-5321 860F RC-5324 80000F RC-5322 860F RC-5354 80030µF RC-5322 860F RC-5354 80030µF RC-5322 800 RC-5326 80000F RC-5326 80		
RC-5315 18pF RC-5344 4700pF RC-5316 25P RC-5345 5600pF RC-5317 27pF RC-5346 5600pF RC-5317 27pF RC-5346 6800pF RC-5319 30pF RC-5348 0.01µF RC-5320 47pF RC-5325 0.022µF RC-5322 15pF RC-5354 0.033µF RC-5326 47pF RC-5355 0.047µF		
RC-5316 22bF RC-5345 5600pF RC-5317 27bF RC-5346 6800pF RC-5318 33pF RC-5347 8200pF RC-53219 39pF RC-5348 0.01uF RC-5320 47pF RC-5352 0.022uF RC-5322 156pF RC-5358 0.033uF RC-5326 66pF RC-5358 0.047uF		
RC-5317 27pF RC-5346 8800pF RC-5318 33pF RC-5347 8200pF RC-5319 39pF RC-5348 0.01uF RC-5320 47pF RC-5352 0.022uF RC-5321 56pF RC-5358 0.022uF RC-5326 68pF RC-5358 0.047uF		
RC-5318 39pF RC-5347 8200pF RC-5319 39pF RC-5348 0.01uF RC-5320 47pF RC-5352 0.022uF RC-5321 56pF RC-5358 0.033uF RC-5326 68pF RC-5358 0.047uF		
RC-5319 39pF RC-5348 0.01uF RC-5320 47pF RC-5352 0.022uF RC-5321 56pF RC-5354 0.033uF RC-5322 68pF RC-5356 0.047uF		
RC-5320 47pF RC-5352 0.022uF RC-5321 56pF RC-5354 0.033uF RC-5322 68pF RC-5356 0.047uF		
RC-5321 56pF RC-5354 0.033uF RC-5322 68pF RC-5356 0.047uF		
RC-5322 68pF RC-5356 0.047uF		
		110 0000 0.04701

### ALL 18¢ ea 10 or more 15¢ ea 50 Volt

## Ceramic 10%

Cat. No	Туре	1-9	10+
	0.1uF 100N	22¢	19¢
RC-5364	0.22uF 220N	25€	22¢
	0.39uF 390N	40e	35€
RC-5368	0.47uF 470N	40e	35¢

### 3kV Ceramic

Cat. No Type 1-9 RC-5380 0.01uF \$1.95

### Ceramic Pack

60 top quality prime spec PACK OF 60



1-9

### Ceramic **Filters**

Cat. No	Туре
RC-5400	CSA5 06MTCSC
	300k resonator
RC-5402	SFD455D (5 legs
RC-5403	BFB455 (2 legs)



### Blue Chip Monolithic

Cat. No	Type	1-9	10+
RC-5480	0.01u	20e	18¢
RC-5490	0.1uF	25e	20¢
BUY IN BU	JLK AND	SAVE	
0.01uF Ca	. RC-54	95 PACK	OF 100 \$12
0.1uF Ca	L RC-54	96 PACK	OF 100 \$16

### **Polystyrene**

-	, ,			
Also k	nown a	s 'Styro	seals'	
Cat. No	Type	1-9	10+	
RS-5512	15pF	90¢	80¢	
RS-5514	22pF	90¢	80¢	
RS-5520	33pF	90¢	80e	II.
RS-5522	39pF	90e	80e	li li
RS-5524	47pF	90e	80e	- 1
RS-5526	56pF	90¢	80e	
RS-5528	68pF	90¢	80¢	- 1
RS-5530	82pF	90¢	80¢	8
RS-5532	100pF	90\$	80e	
RS-5534	120pF	90¢	80e	
RS-5536	150pF	90¢	80¢	
RS-5538	180pF	90¢	80¢	22
RS-5540	220pF	90¢	80¢	
RS-5542	270pF	90¢	80¢	$\overline{}$
RS-5544	330pF	90¢	80¢	П
RS-5546	390pF	90¢	80¢	li li
RS-5548	470pF	90¢	80€	- 11
RS-5550	560pF	90¢	80¢	- 11
RS-5552	680pF	90¢	80¢	l l
RS-5554	820pF	90e	80¢	- 1
RS-5556	1000pF	90¢	80¢	
RS-5560	1500pF	\$1.00	90¢	
RS-5562	2200pF	\$1.00	90¢	
RS-5564	3300pF	\$1.20	\$1.00	
RS-5568	5600pF	\$1.20	\$1.00	

We buy our Polystyrene capacitors from several sources. The minimum voltage of any "styro" is 50 volts and maybe as high as 630 volts., depending on capacitance value. We cannot guarantee to supply

## Tag Tantalums

9	10111001	41110	
Cat. No	Туре	1-9	.0+
RZ-6620	0.1uF 35V	70¢	65e
RZ-6622	0.22uF 35V	70e	65¢
RZ-6624	0.33uF 35V	70e	65¢
RZ-6626	0.47uF 35V	70e	65¢
RZ-6628		70¢	65¢
RZ-6630	1.5uF 35V	70e	65¢
RZ-6632	2.2uF 35V	70e	65¢
RZ-6634	3.3uF 35V	75¢	70e
RZ-6640		95¢	85¢
	6.8uF 35V	95¢	85¢
	10uF 25V	\$1.10	\$1.00
RZ-6655	10uF 35V	\$1.50	\$1,30
RZ-6657	15uF 16V	95e	85¢
RZ-6658	22uF 16V	\$1.25	\$1,10
RZ-6865	33uF 16V	\$1.25	\$1.10
RZ-6670	47uF 16V	\$1.25	\$1,10
RZ-6675	100uF 3V	\$1.00	904



### Hi Quality Tantalums

We have available some super high quality tantalum They are KEMET brand telecommunications military spec type and are RT style. The leads are very long and they can be mounted upright. These capacitors rmally sell for bewteen \$5 and \$7 each. We can offe

nese at	AG tantalum pr	ices while stor	:ks last.
		1-9	10+
	0.1uF 35V	50¢	40¢
	0.33uF 35V	50¢	40¢
RZ-6627	0.68uF 35V	50¢	40¢
RZ-6646	6.8uF 35V	65€	50e
RZ-6656	10uF 35V	75€	60e
RZ-6680	15uF 20V	75€	60e
RZ-6681	22uF 35V	85¢	70e
RZ-6682	47uF 20V	95¢	80¢



#### **Horizontal** Trimmere

1 1111			
t. No	Type	1-9	10+
1-5702	2.0 - 7.0pF BLUE	\$1.95	\$1.80
-5704	5.2 - 30pF GREEN	\$1.95	\$1.80
-5706	6.8 - 45pF YELLOW	\$1.95	\$1.80
-5708	9.8 - 60pF BROWN	\$1.95	\$1.80
1-5722	4 - 20pF	\$1.40	\$1.30
/-5738	0 - 100pF Porcelain	\$4.95	\$4.50
	0 - 120pF Compression	\$1.95	\$1.75
	5 - 50pF Compression	\$1.50	\$1.00
			1



Ca RV RV RV RV RV



### Trimmer Capacitor

Cat. No Type RV-5726 4/40pF 80832409 FROM PHILIPS



### Mini **Tuning** Capacitor

Cat. No Type RV-5740 0-160 pF metal tuning gang 10+ \$5.20



### Thermistor

NTC TYPE - 470 OHMS 50¢



#### TURN YOUR SURPLUS STOCK INTO CASH!!

Jaycar will purchase your surplus stocks of components and equipment. We are continually on the lookout for sources of prime quality merchandise.

CALL GARY JOHNSTON OR BRUCE ROUTLEY NOW ON (02) 747 2022



ľ	Transi	stors									
ľ		Туре	Mat Pol	Case	Diss @25C	Vcb	lc	Hfe	Hfe Bias	1-9	10+
Ι.	Cat. ZT-2040	AC126 (AC125)	PNP	TO-1	150mW	32V	500mA	90	Ditto	\$1.20	\$1.00
	Cat. ZT-2040	AF117	PG	TO-7	80mW	32V	10mA	50	1mA	\$ .50	\$ .45
П	Cat. ZT-2110	BC327	PS	TO-92	500mW		800mA	100	100mA	\$ .30	\$ .25
н	Cat. ZT-2112	BC328	PS	TO-92	500mW	30V	800mA	63	100mA	\$ .30	\$ .25
ш	Cat. ZT-2115	BC337	NS	TO-92	500mW		800mA	100	100mA	\$ .30	\$ .25
П	Cat. ZT-2116	BC338	NS	TO-92	500mW	30V	800mA	100	100mA	\$ .30	\$ .25
	Cat. ZT-2150	BC546	NS	TO-92	300mW	80V	100mA	125	2mA	\$ .65	\$ .60
	Cat. ZT-2152	BC547	NS	TO-92	300mW	50V	100mA	110	2mA 2mA	\$ .15 \$ .15	\$ .12
	Cat. ZT-2154	BC548	NS	TO-92	300mW 300mW	30V 30V	100mA 100mA	110	2mA	\$ .15	\$ .12
1	Cat. ZT-2156	BC549 BC549C	NS NS	TO-92 TO-92	300mW	30V	100mA	420	2mA	\$ .40	\$ .35
	Cat. ZT-2158 Cat. ZT-2160	BC550	NS	TO-92	300mW	50V	100mA	240	2mA	\$ .65	\$ .60
	Cat. ZT-2162	BC556	PS	TO-92	300mW	80V	100mA	75/450	2mA	\$ .65	\$ .60
	Cat. ZT-2164	BC557	PS	TO-92	300mW	50V	200mA	75	2mA	\$ .18	\$ .15
	Cat. ZT-2166	BC558	PS	TO-92	300mW	30V	100mA	74/475	2mA	\$ .18	\$ .15
	Cat. ZT-2168	BC559	PS	TO-92	300mW	30V	200mA	125	2mA	\$ .18 \$ .70	\$ .15 \$ .65
	Cat. ZT-2179	BC639	NS	TO-92	800mW	80V	1A	40	150mA 150mA	\$ .70	\$ .65
	Cat. ZT-2180	BC640	PS PS	TO-92 TO-18	800mW 350mW	80V 45V	1A 200mA	100	10mA	\$ .95	\$ .85
	Cat. ZT-2185	BCY71 BD135	PS	40V version		454	20011104	100	TOTAL	\$ .79	\$ .70
	Cat. ZT-2187 Cat. ZT-2188	BD135 BD136		40V version						\$ .79	\$ .70
ш	Cat. ZT-2189	BD139	NS	TO-126	6.5W	80V	1A	40/160	150mA	\$ .95	\$ .90
	Cat. ZT-2190	BD140	PS	TO-126	6.5W	80V	1A	40/250	150mA	\$ .95	\$ .90
	Cat. ZT-2192	BD682/BD262									\$1.62
		& BD680	PS	TO-126	36W	100V	4A	750	1.5A	\$1.80	\$1.02
ı	Cat. ZT-2193	BD263/BD677 BD681/BD679	NS	TO-126	36W	100V	4.6	750	1.54	\$1.80	\$1.62
	Cat. ZT-2198	BD681/BD6/9	NPN	10-126	3044	100V	8A	700	1.00	\$1,95	\$1.70
	Cat. ZT-2198	BD650	PNP			100V	8A			\$1.95	\$1,70
	Cat. ZT-2205	BF494	NS	TO-92	300mW	30V	30mA	10	3mA	\$1.95	\$1.90
1	Cat. ZT-2209	BF469	PS	TO-126	1.8W	250V	200mA	50	25mA	\$1.50	\$1.40
н	Cat. ZT-2210	BF470	NS	TO-126	1.8W	250V	200mA	50	25mA	\$1.50	\$1.40
1	Cat. ZT-2215	BFR84				800V	10A	15	1.2A	\$4.65	\$4.45
1	Cat. ZT-2220	BUX80	NS	TO-3 OS Powerfe	100W	8000	TUM	15	1.24	\$8.50	40.00
н	Cat. ZT-2225 Cat. ZT-2230	BUZ71 MJ15003	NS	TO-3	250W	140V	20A	25	54	\$9.50	\$9.00
1	Cat. ZT-2231	MJ15003	PS	TO-3	250W	140V	20A	25	5A	\$9.50	\$9.00
н	Cat. ZT-2235	MJ2955	PS	TO-3	150W	100V	15A	5	10A	\$2.95	\$2.80
	Cat. ZT-2255	MJE340	NS	TO-126	20W	300V	500mA	30/240	50mA	\$2.35	\$2.20
1	Cat. ZT-2260	MJE350	PS	TO-126	20W	300V	500mA	30/240	50mA	\$2.98 \$1.95	\$2.50 \$1.80
н	Cat. ZT-2275	MJE2955	PS	TO-220	90W 90W	70V 70V	10A 10A	20/70	4A 4A	\$1.95	\$1.80
н	Cat. ZT-2280 Cat. ZT-2281	MJE3055 OC977	NS	TO-220	PAIR WITH		TUM	20/10	40	\$ .50	\$ .40
1	Cat. ZT2282	OC932		MATCHEL	PAIR WITH	DC977				\$ .50	\$ .40
н	Cat. ZT-2285	TIP31	NS	TO-220	2W	40V	3A	20/100	1A	\$ 1.20	\$ 1.10
н	Cat. ZT-2290	TIP32	PS	TO-220	2W	40V	3A	20/100	1A	\$ 1.20	\$ 1.10
н	Cat. ZT-2292	TIP122	NPN	TO-220	2W	100V	200VA			\$ 1.75	\$ 1.60
н	Cat. ZS-2294	VN88AF								\$4.95 \$ .15	\$4.65
1	Cat. ZT-2295	2N2907	PNP NS	60V 600mA TO-92	(BC557) 500mW	60V	800mA	100	150mA	\$ .15	\$ .85
ı	Cat. ZT-2298 Cat. ZT-2299	2N2222A 2N3053	NS NS	TO-5	1W	60V	700mA	50	150mA	\$1.95	\$1,75
1	Cat. ZT-2299	2N3055	NS	TO-3	115W	100V	15A	20/70	4A	\$2.25	\$2.00
1	Cat. ZT-2305	2N3442	NS	TO-3	117W	160V	10A	20/70	3A	\$5.50	\$5.25
ı	Cat. ZT-2309	2N3565	NS	TO-92	200mW	30V	50mA	70	0.1mA	\$ .65	\$ .55
1	Cat. ZT-2310	2N3566	NS	TO-105	300mW	40V	200mA	150	10mA	\$ .95	\$ .85
1	Cat. ZT-2314	PN3568		60V 500mA		001/	£00	100	150mA	\$ .18 \$ .68	\$ .12 \$ .60
1	Cat. ZT-2315	2N3569	NS PS	TO-92	300mW 300mW	80V 25V	500mA 500mA	30	50mA	\$ 53	\$ .48
н	Cat. ZT-2320	2N3638 2N3643	NS NS	TO-92 TO-92	350mW	60V	500mA	100	150mA	\$ .45	\$ .40
н	Cat. ZT-2325 Cat. ZT-2330	2N3643 2N3645	PS	TO-92	300mW	60V	500mA	115	50mA	\$ .65	\$ .55
н	Cat. ZT-2333	2N3771	NS	TO-3	150W	50V	30A	15/60	10A	\$8.25	\$7.85
П	Cat. ZT-2338	2N4250	PS	TO-92	200mW	40V	100mA	250min	1mA	\$ .45	\$ .40
1	Cat. ZT-2340	2N4258	PS	TO-92	200mW	12V	50mA	30/120	10mA	\$ .75	\$ .65 \$1.75
ı	Cat. ZT-2360	2N5245				0.0017				\$1.95 \$ .60	\$1.75
п	Cat. ZT-2366	2N5416	PNP	TO-5		300V 120V	1A 600mA			\$ .00	\$ .20
1	Cat. ZT-2370	2N5400 2N6211	PNP	TO-92 TO-66		275V	2A			\$1.00	\$ .80
1	Cat. ZT-2398 Cat. ZT-2400	2N6211 2SC2545	NS	TO-92		ULTRA	LOW NO	ISE		\$2.95	\$2.75
ı			110		92 package Sm			o STANDARDA	A.		
ı	TO3 Package Powe			Su	mal transistors.	_	. 0	1	а	900	
1		BD139 BD140		<u> </u>	547, BC557		1	The same		Marie .	
1	/ 10			/40 / BO	548, BC558 549, BC559	-	10			1	Day.
П	6.	<ul> <li>Mje350</li> </ul>		41		1	E				-
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# Volt/Amn



### TRIAC's

Cat. No Type Volt/Amp ZX-7141 SC141D 400V 6A ZX-7145 SC151D 400V 15A ZX-7147 TAG225- 400V 8A \$1.85 \$2.50 \$2.25

\$1.70 \$2.35 \$2.10 - Terminal 1 - Terminal 2 - Gate T1 T2 G

Multireplacement Common **Transistors** 

Jaycar have available two transistors which will replace a multitude of

common hard to get devices. PN100 is NPN general purpose medium power amp and switch with continuous collector current up to 500mA.

PN200 is PNP general purpose amplifier at collector currents to 1A. Both are TO-82 plastic package. PN100 replaces PN2221 PN2222, PN2222A, PN3565, PN3568, PN3569, PN3643, PN5133, 2N2219A, 2N2222A, 2N3414, 2N3415, 2N3416, 2N3417, 2N3700, 2N3704, 2N3904, 2N4123, 2N4124, 2N4401, 2N5088 and 2N5210

Cat. ZT-2283

### 25¢ ea 10+ 22¢ ea

PN200 replaces PN2907, PN2907A, PN363B, PN3638A, PN3640. PN3644, PN4121, PN4143, PN4248, PN4249, PN4250, PN4355, PN4916, PN4917, PN5910, 2N2905A, 2N3467, 2N3702, 2N3906, 2N4125, 2N4126, 2N4291, 2N4402, 2N4403, 2N5086, 2N5087, 2N5447 Cat. ZT-2284

## 25c ea



### FETs, UJTs

	٠, ٠		_
2SJ49	P chan	nel Mos	let
Cat. ZT-2	449	\$8.95	\$7.95
2SJ56	P chan	nel Mos	let
Cat. ZT-2	450	\$22.95	\$21.50
2SK134	N chan	nel Pow	er Mosfet
Cat. ZT-2	454	\$8.95	\$7.95
2SK176	N Most	ot	
Cat. ZT-2	455	\$19.50	\$18.50
MPF 102	N chan	nel JFE	T
Cat. ZT-2	262	\$1.35	\$1.25
MPF 105/	2N5459	N char	nnel JFET
Cat. ZT-2	265	95¢	85¢
MPF 108	2N5485	N char	nnel JFET
Cat. ZT-2	266	\$1,40	\$1.30
2N5245	N chan	nel JFE	T
Cat. ZT-2	360	\$1.95	\$1.75
2N5484	N chan	nel JFE	T
Cat. ZT-2	375	\$1.20	\$1.10
MFE131	N chan	nel Dua	Gate Mosfer
Cat. ZT-2	227	\$4.20	\$3.85
2N2646	Unljung	tion Tra	insistor
Cat. ZT-2	297	\$1,40	\$1,26
2N6027	Progra	mmable	Unitunction
Cat. ZT-2	397	\$1,35	\$1.25
201110	Dual M	ohanna	I I Eat



\$29,50 \$27,50

### DIAC's

Cat. No \$1.15 ZX-7190 ST4 ZX-7192 ST2 \$1.25

### **Light Emitting Diodes**

Cat. No	Size	Colour	Lens Colour	Brightness	Absolu	te Maximur	n Ratings		Electro	-Optical CI	haracteristi	DB .	Price	10 up
				(mCd)	Δλ	Pd	If(mA)	Peak	VI(V)			Rec	1	
					(nm)	(mw)		if(mA)	Min.	Тур.	Max.	IF(mA)		
ZD-1740		Red	Red	0.5	40	110	40	200	1.5	1.7	2.0	10-20	28e	25e
ZD-1745		Green	Green	3.5	30	100	30	160	1.7	2.1	2.8	10-20	32¢	28¢
ZD-1750		Yellow	Yellow	2.5	35	85	20	160	1.7	2.0	2.8	10-20	32e	28¢
ZD-1752		Red	Water Clear	120	20	110	40	200	1.5	1.7	2.0	10-20	99e	90¢
ZD-1710	5mm	Red	Red	0.9	40	110	40	200	1.5	1.7	2.0	10-20	25e	22e
ZD-1715	5mm	Green	Green	25	30	100	30	160	1.7	2.1	2.8	10-20	35e	30¢
ZD-1720	5mm	Yellow	Yellow	2.5	35	85	20	160	1.7	2.0	2.8	10-20	35e	30¢
ZD-1725	5mm	Orange	Orange	3.5	45	100	30	160	1.7	2.0	2.8	10-20	35e	30e
ZD-1790	5mm	Red	Water Clear	300	20	110	40	200	1.5	1.7	2.4	10-20	79¢	70e
ZD-1792	5mm	Red	Water Clear	500	20	110	40	200	1.5	1.7	2.4	10-20	\$2.50	\$2.30
ZD-1793	5mm	Red	Water Clear	1000	20	110	40	200	1.5	1.7	2.4	10-20	\$4.95	\$4.50
ZD-1794	5mm	Green	Water Clear	80		125	50	50		2.1	2.5	20	\$1.50	\$1.40
ZD-1795	5mm	Yellow	Water Clear	160		125	50	50		2.1	2.5	20	\$1.90	\$1.80
ZD-1735	5mm	Tri-Colour	Water Clear										95e	85e
ZD-1780	5mm PCB	Red	Red	1.6	90	45	15	50	1.7	2.1	2.8	5-10	48¢	42¢
ZD-1781	5mm PCB	Green	Green	5.0	30	100	30	160	1.7	2.1	2.8	10-20	48¢	42¢
ZD-1782	5mm PCB	Yellow	Yellow	5.0	35	85	20	160	1.7	2.0	2.8	10-20	48¢	42e
ZD-1783	5mm PCB	Orange	Orange	5.0	35	100	30	160	1.7	2.0	2.8	10-20	48¢	42e
ZD-1958	10mm	Red	Red	3.8	90	45	15	50	1.7	2.1	2.8	10-20	\$1.50	\$1.30
ZD-1957	10mm	Green	Green	15	30	100	30	160	1.7	2.1	2.8	10-20	\$1.50	\$1.30
ZD-1958	10mm	Yellow	Yellow	13	35	85	20	160	1.7	2.0	2.8	10-20	\$1.50	\$1.30
ZD-1959	10mm	Orange	Orange	15	45	100	30	160	1.7	2.0	2.8	10-20	\$1.50	\$1.30
ZD-1760	5x2mm		Red	0.5	90	45	15	45	1.7	2.1	2.8	5-10	40e	\$1.30 35¢
ZD-1765	5x2mm	Green	Green	1.0	30	100	30	100	1.7	2.1	2.8	10-20	40¢	35e
ZD-1770	5x2mm	Yellow	Yellow	1.0	35	85	20	85	1.7	2.0	2.8	10-20	40¢	35¢

#### Flashing **LEDs**

rate 2Hz. 1.2mCd at 3 volts. Available in 3 colours.
RED Cat. ZD-1730
GREEN Cat. ZD-1731
YELLOW Cat. ZD-1732

\$1.50 ea



### Infra Red LEDs and Diodes

ZD-1945 CQY89 IR LED 1-9 \$1.85 10+ \$1.75 ZD-1950 BPW50 type IR diode 1-9 \$3.75 10+ \$3.25

ZD-1952 TIL31 Infra Red LED TO-18 1-9 \$1.50 10+ \$1.30

ZD-1953 TIL81 NPN Photo Transistor TO-18 1-9 \$2.00 10+ \$1.70

### **LED Mounting** Hardware

5mm Clips Black with interlocking colla Cat. HP-1102 packet 20

\$2.20 Cat. HP-1103 packet 100 \$8.95

5mm Bezels

The great new LED Bezels are made of black plastic and are supplied in 2 parts. Simply push part A into the panel (you will need a 10mm hole), then put the LED into part B and insert part B (with LED) into part A for a tight fit. You end up with a very professional LED bezel at about 1/4 the price of chrome ones.

ALSO. If you have the need for a hole in

a panel up until now it has been extremely hard to disguise it. Simply mount one of these without the LED. Ideal for internal mounted buzzers lamps, etc. Cat. HP-1105 packet 10

\$2.99 Cat. HP-1106 packet 100 \$26.95

3mm Clips

\$2.20 pk 20 Cat. HP-1101 \$8.95 pk 100

Simply push clip into panel and insert Cat. HP-1100

#### 7 Segment 7 Segment Displays Displays

LT303 Common Cathode Cat. ZD-1803

LT302 Common Anode Cat. ZD-1802 · Peak wavelength 700 1V (uDc)

\$3.50 ea 10+ \$3.30 ea



FND500/LTS543R/S505RWR

FND507/LTS542R/S506RWB

Common Cathode Cat. ZD-1855

Common Ano



BRISBANE 07 393 0

1.0 10. 1-9 \$ 2.45 \$ 2.95 \$ 5.50 \$ 1.50 \$ 2.50 \$2.20

\$2.65

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\$2.30 \$ 5.50 \$ 7.50 \$ 3.20 \$5.00

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\$1.40 \$2.10

\$4.25

\$3.45

\$ 1.10

\$4.50

\$2.95

\$8.50 \$1.75 \$ .55

\$3,15 \$1.75

\$1.05 \$1.05 \$ .65 \$2.00

\$1.30

\$4,20 \$2.30

\$3.25 \$4.65 \$1.85

\$1.50 \$3.25

\$5.95

\$2.50

\$ 4.95 \$ 1.40 \$ 5.95 \$ 3.75 \$ 1.20 \$ 1.85 \$1,30

\$19.95 \$19.95 \$ 2.85 \$ 4.75 \$ 3.45 \$ 2.40 \$ 1.95 \$ 8.95 \$ 2.50 \$2.60

\$ .70 \$ 1.45 \$1,25

\$ 2.50 \$ 3.45 \$ 2.40 \$ 6.50 \$ 9.95

\$1.25 41.06

### Low Power Schottky 741 S

	Scn	ΙΟΙΙ	ку	74L5
ļ	Cat. No	Type	) 14	Description Oued 2 input NAND gate
	ZS-5000 ZS-5001	74LS0	14	Quad 2 input NAND gate (oc)
	ZS-5002 ZS-5003	74LS02	14	Quad 2 input NAND gate Quad 2 input NAND gate (oc) Quad 2 input NOR gate Quad 2 input NOR gate Quad 2 input NAND gate (oc)
	ZS-5003	74LS03	3 14 1 14	Quad 2 input NANO gate (oc) Hex inverter
	ZS-5004 ZS-5005	74LS0	5 14	
	75-5008	74LS0I	3 14	Quad 2 input AND gate Quad 2 input AND gate (oc) Triple 3 input NAND gate Tripple 3 input NAND gate
	ZS-5009 ZS-5010	74LS0	14	Quad 2 input AND gate (oc)
	ZS-5010 ZS-5011	74LS1	1 14	Tripole 3 input AND gate
	ZS-5010 ZS-5011 ZS-5012 ZS-5013 ZS-5014 ZS-5020	74LS1	2 14	
	ZS-5013	74LS1	3 14 4 14	Dual 4 input schmitt trigger NAND gate
	78-5020	74LS2	0 14	Hex schmitt trigger Dual 4 Input NAND gate Dual 4 Input AND gate
	ZS-5021 ZS-5027	74LS2	1 14	Dual 4 Input AND gate
	ZS-5027	74LS2	7 14	Triple 3 input NOR gate Single 8 input NAND gate
	ZS-502/ ZS-5030 ZS-5032 ZS-5033 ZS-5042 ZS-5047	74LS3	2 14	Quad 2 input OH gate
	ZS-5033	74LS3	3 14	Quad 2 input NOR gate (oc)
	ZS-5042	74LS4	2 16 7 16	1 of 10 decoder
	79,5048	741.54	8 16	BCD to 7 segment decoder/driver (oc) BCD to 7 segment decoder/driver BCD to 7 segment decoder/driver (oc)
	ZS-5049	74LS4	9 14	BCD to 7 segment decoder/driver (oc)
	ZS-5073	74LS7	3 14	Dual JK flip-flop with clear Dual DF/F + Prst + CLR
	ZS-5074	74LS7	4 14 5 16	4 bit bi-stable latch
	ZS-5076	74LS7	6 16	Dual JK flip-flop with preset and clear Dual JK flip-flop with common clear
	ZS-5078	74LS7	8 14	Dual JK flip-flop with common clear
	ZS-5083	74LS8	3 16	4 bit full adder 4 bit magnitude comparator
	ZS-5086	74LS8	6 14	Quad 2 input exclusive OR gate
	ZS-5090	74LS9	0 14	Decade counter
	ZS-5092	74LS9	2 14	Divide by 12 counter 4 bit binary counter
	ZS-5095	74LS9	5 14	4 bit shift register
	ZS-5107	74LS1	07 14	Dual JK flip-flop
	ZS-5109	74LS1	09 16 12 16	Dual JK edge triggered flip-flop Dual JK edge triggered flip-flop
	ZS-5122	74LS1	22 14	
	ZS-5042 ZS-5047 ZS-5048 ZS-5073 ZS-5073 ZS-5076 ZS-5076 ZS-5083 ZS-5083 ZS-5085 ZS-5085 ZS-5085 ZS-5095 ZS-5095 ZS-5095 ZS-5095 ZS-5095 ZS-5095 ZS-5095 ZS-5095 ZS-5095 ZS-5095 ZS-5112 ZS-5112 ZS-512	3 74LS1	23 16	Dual retriggerable monostable with clea
	ZS-5126 ZS-5126	74LS1	25 14 26 14	Quad tri-state buffer Quad tri-state buffer
	ZS-5126	3 74LS1	38 16	1 of 8 decoder/demultiplexer
				Dual 1 of 4 decoder/demultiplexer
	ZS-5147 ZS-5148 ZS-5151	7 74LS1	47 16 48 16	8 input to 3 line priority encoder 8 input to 3 line priority encoder
	ZS-5151	1 74LS1	51 16	Single 8 input multiplexer
	ZS-5150 ZS-5150 ZS-5150 ZS-5150 ZS-5160	3 74LS1	53 16	Dual 4 input multiplexer
	ZS-5155	5 74LS1	55 16 56 16	Dual 1 of 4 decoder/demultiplexer Dual 1 of 4 decoder/demultiplexer
	ZS-5157	7 74LS	57 16	Quad 2 input 1 multiplexer (non-nivert) Quad 2 input multiplexer (invert)
	ZS-5156 ZS-5166 ZS-516	8 74LS	158 16 160 16	Quad 2 input multiplixeer (invert) BCD decade counter (async. reset)
	ZS-5160 ZS-5160	1 74LS	160 16	4 bit binary counter (async. reset)
	ZS-516: ZS-516:	2 74LS	162 16	BCD decade counter (sync. reset)
	ZS-516	3 74LS	163 16 164 14	4 bit binary counter (sync. reset)
	ZS-516- ZS-516	5 74LS	165 16	8 bit shift register (ser. in/par. out) 8 bit shift register (par. in/se. out)
	ZS-516 ZS-517	6 74LS	166 16	8 bit shift register (par. in/ser. out)
	ZS-517: ZS-517:	3 74LS	173 16 174 16	4 bit tri-state D regsiter Hex D flip-flop with clear
	79,517	4 /4LS	175 16	
	ZS-519	0 74LS	190 16	Lin/down decade counter
	ZS-517 ZS-519 ZS-519 ZS-519 ZS-519	1 74LS	191 16	
	ZS-519	3 74LS	193 16	Lip/down binary counter with dual clock
	ZS-519	4 74LS 5 74LS 6 74LS 1 74LS	194 16	4 bit bi-directional shift register
	ZS-519	5 74LS	195 16	4 bit parallel access shift regsiter Pre-settable decade counter
	ZS-519	1 74LS	221 16	Dual monostable multivibrator
	ZS-524	0 74LS	240 20	Octal tri-state buffer (inverting)
	ZS-524	11 74LS	241 20	Ouad Bus Transceivers
	ZS-524	13 74LS 13 74LS 14 74LS 15 74LS	244 20	Octal tri-state line driver/receiver
	ZS-524	5 74LS	245 20	Octal tri-state bus tranceiver
	ZS-525	7 74LS	257 16	Quad 2 input tri-state multiplexer Quad 2 input tri-state multiplexer
	ZS-525	57 74LS 58 74LS 59 74LS 66 74LS 73 74LS	259 16	8 B bit addressable latch
	ZS-526	6 74LS	266 14	Quad exclusive NOR gate (oc)
	ZS-527	73 74LS	273 20	Octal flip-flop with clear Inverting LS353
	ZS-536	52 74LS 55 74LS	365 1	5 Hex buffer common enable (non-inven
	ZS-536	56 74LS 57 74LS	366 1	B Hex buffer common enable (inverting)
	ZS-536	57 74LS	367 1	Hex buffer 4 bit and 2 bit Hex inverter 4 bit and 2 bit
	ZS-536 ZS-533	58 74LS 73 74LS 74 74LS	373 2	
	ZS-537	74 74LS	374 2	Octal tri-state D flip-flop
	ZS-539	93 74LS 29 74LS	393 1	4 Dual 4 bit binary counter
	ZS-562	28 /4LS	0059 1	8 Voltage controlled osciallator Replaces 74LS124

### Linear IC

80¢ 75e 75e 75e

80¢ 90¢ 80¢

80¢ 80¢ \$1.10 80¢ 80¢ 80¢ 75¢ 90¢ 75¢

80¢ 75e 75e

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\$1.00 904

\$1.00 90e \$1.10 \$1.00 \$1.00 90e

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\$1.25 \$1.15

\$1.50 \$1.40 \$1.20 \$1.10 \$1.90 \$1.80

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\$2.90 \$2.25 \$1.25 \$1.15 \$2.95 \$2.70

\$1.50 \$1.00 \$1.25 \$1.15

\$1.25 \$1.15 \$1.60 \$1.50

\$2.95 \$2.70

\$2.95 \$2.70 \$3.50 \$3.15

\$6.50 \$6.00

80¢ 75¢

75¢

Cat. No	Type	Pir
TI COOL	TLOCA	8
Cat. No ZL-3061 ZL-3062	TLOOT	8
ZL-3062	1L062	
ZL-3064	TL064/LF444	14
ZL-3071	TL071/LF351	8
71 2074	TL074/LF374 TL075 TL084	14
ZL-3074	TI 075	14
ZL-30/5	TL075	17
ZL-3084	11.084	1*
ZL-3301	LM301	8
ZL-3307		8
ZL-3308	LM308 LM311	8
ZL-3311	I M311	8
75. 0010	LM318H LM324 LM326	
ZL-3310	LM310H	8
ZL-3324	LM324	14
ZL-3326	LM326	14
		3
ZL-3339 ZL-3348	LM339	14
71,3348	LM34R	14
71 0050	OHISEO	
ZL-3330	OM350 LM380	14
ZL-3380		14
ZL-3381	LM381N LM382	14
ZL-3382	LM382	14
71 -3386	LM386N-1	8
71 -2202	LM381N LM386N-1 LM393CH LM394CH LM7555 NE556 LM565 NE566 LM567 NE671 NE572	я
71 0000	LMOOGCH	ě
ZL-3394	LW304CH	0
ZL-3455	LM/000	0
ZL-3555	NE555	8
ZL-3556	NE556	8
71 -3565	LM565	8
71 2566	NESSS	8
TI 0507	111507	ŏ
ZL-3507	LM007	
ZL-3571	NE5/1	11
ZL-3572	NE572	11
ZL-3709	UA709	14
713710	VA709HC	8
71 -3741	I M741	8
71 2747	LM394CH LM7555 NE555 NE556 LM565 NE566 LM567 NE571 NE572 UA709 VA709HC LM741 LM747 LM748 LM1458N	1,
ZL-3/4/	111740	8
ZL-3753	LM1458N	8
ZL-3917	LM2917	14
ZL-3762	CA3028	8
ZL-3780	LM3080	8
71 -3832	CA3130E	8
71 - 2024	CA3100E	8
71,0040	LHOIM	0
ZL-3840	LM3140	0
ZL-3756	MC1496G	1
ZL-3900	LM3900	1
ZL-3909	LM3909	8
ZL-3911	LM3911	8
71 -3914	I M3914	1
71 2015	LM2015	- 1
ZL-3915	LM3310	- 1
ZL-3936	LM+130	
ZL-3958	LM4558	8
ZL-3970	LM5534N	8
ZL-3971	LM1458N LM2917 CA3028 LM3080 CA3130E CA3130E CA3130E LM3140 MC1496G LM3900 LM3911 LM3914 LM3915 LM4558 LM4558 LM4558 LM5534N ZN414	8
ZL-3990	ZN414	3
	-	

_		
	Pin	Description
	8	1 x low power JFET op-amp
	8	2 x low power JFET op-amp
F444	14	4 x low power JFET op-amp
LF351	8	1 x low noise JFET op-amp
F353		2 x low noise JFET op-amp
F374		4 x low noise JFET op-amp
	14	4 x low noise JFET op-amp
	14	J Fet Op amp
	8	High performance op-amp
	8	High performance comparator
	8	Precision op-amp
	8	Voltage comparator
Н	8	High performance op-amp
	14	4 x low power op-amp
	14	Dual trac voltage regulator
z	3	Adjustable current source
	14	4 x low power comparator
	14	Quad 741 Op amp
)	5	Hybrid amplifier (40-550MHz)
	14	Audio power amplifier
N	14	Low noise dual pre-amplifier
	14	Low noise dual pre-amplifier
N-1	8	Low voltage 1 watt amplifier
	8	Low power dual comparator
CH	6	Supermatched transistor pair
5	8	MOS timer
	8	Timer
	8	Dual timer
	8	PLL
	8	Function generator
	8	Phase locked loop (PLL)
	16	Compander
	16	Stereo compander IC
9	14	Op-amp (14 pin)
HC	8	Op-Amp metal round
	8	General purpose op-amp
,	14	Dual general purpose op-amp
3	8	Single OP amp
58N	8	Dual op-amp
17	14	Frequency to voltage converter
28	8	
30	8	Opera transconductance amp
30E	8	Minidip op-amp
00E	8	Wideband op-amp
10	8	Op-amp
96G	10	
00	14	Quad op-amp
29	8	LED flasher/oscillator
11	8	Temperature controller
14	18	LED bar/dot driver (linear)
15	18	LED bar/dot driver (logarithmic)
36	14	Quad high performance op-amp



ZS-5950 75451 8

Cat. No	Type	Pin	Description
75-5802	7402	14	Quad 2 inp
ZS-5804	7404	14	Hex inverte
ZS-5806	7406	14	Hex inverte with high v
ZS-5807	7407	14	Hex buffer with high v
ZS-5821	74121	14	One shot
ZS-5837	7437	14	Quad 2 inp
ZS-5854	7454	14	4 wide 2 in INVERT ga
ZS-5875	7475	16	4 bit bistab
ZS-5895	7495	14	4 bit left/rig
75-5896	74196	14	Presettable

\$1.00
\$1.00
11.20
\$1.20
\$1.50
80¢
60¢
\$1.50
75¢
\$2.75
\$1.00

1-9 \$1.00 904 1.20 \$1,10 \$1.20 61 10 \$1.50 \$1.40

80e 75¢ 60¢ \$1.50 \$1,40 75¢ 680 \$2.75 \$2.60 800

### CMOS

CIM	OS				
Cat No	Part	Pir	ns Description	1-9	10+
ZC-4000		14	Dual 3 input NOR gate + inverter	80e	75e
ZC-400 ZC-400		14	Quad 2 input NOR gate	60¢	55e
ZC-4008	4002	14	Dual 4 input NOR gate 18 stage static shift register	80¢ \$1.35	75¢
ZC-4007	4007	14	Dual complementary pair + inverter	91.35 80¢	\$1.20 75¢
ZC-4008	4008	16	4 bit full adder	\$1.35	\$1.20
ZC-4009 ZC-4010	4009	16	Hex buffer (inverting)		\$1.40
ZC-4011	4011	14	Hex buffer (non-inverting) Quad 2 input NAND gate		\$1.15
ZC-4012	4012	14	Dual 4 input NAND gate	60e \$1.00	55¢
ZC-4013		14	Dual D flip-flop	90e	81¢
ZC-4014 ZC-4015		16		\$1.75	\$1.55
ZC-4016		16	Dual 4 bit static shift register Quad bi-lateral switch	\$1.45	
ZC-4017		16	Decade counter/divider		\$1.55 \$1.55
70,4018	4018	16	Presettable divide by N counter	\$1.95	
ZC-4019 ZC-4020 ZC-4021	4019	16	Quad AND-OR select gate	95¢	85e
ZC-4020	4020	16	14 stage ripple-carry counter/divider	\$1.75	\$1.55
ZC-4022	4022	16	8 stage static shift register Divide by 8 counter/divider	\$1.95	
ZC-4023	4023	14	Triple 3 input NAND gate	95¢	\$1.85 85¢
ZC-4024	4024	14	7 stage ripple-carry counter/divider	\$1.18	
ZC-4025 ZC-4026	4025	14	Triple 3 input NOR gate	80¢	75e
ZC-4026		16	Decade counter with 7 segment output Dual JK flip-flop	\$3.75	\$3.50
ZC-4028	4028	16	BCD to decimal decoder	\$1.25 \$1.95	\$1.10
ZC-4029	4029	16	Presettable binary/decade up/down counter	\$1.85	
ZC-4030	4030	14	Quad 2 IP excl. OR gate	80e	72¢
ZC-4040 ZC-4042	4040	16	12 stage ripple-carry binary counter Quad locked D latch	\$1.65	\$1.50
ZC-4046	4046	16	Micropower phase locked loop (PLL)	\$1.20	
ZC-4047	4047	14	Monostable/Astable multivibrator	\$1.75	\$1.60
ZC-4049	4049	16	Hex buffer (inverting)	\$1.00	90¢
ZC-4050 ZC-4051		16	Hex buffer (non-inverting)	98c	92¢
ZC-4052	4052	16	Single 8 channel analog multiplexer Dual 4 channel analog multiplexer		\$1.60
ZC-4053	4053	16	Triple 2 channel analog multipleer		\$1.80 \$1.80
ZC-4066	4066	14	Quad bi-lateral switch	\$1.20	\$1.10
ZC-4068 ZC-4069	4068	14	Single 8 input NAND gate Hex inverter	80¢	75e
ZC-4070	4070	14	Quad 2 input exclusive OR gate		85e 85e
ZC-4071	4071	14	Quad 2 input QR nate		85¢
ZC-4073		14	Triple 3 input AND gate	80¢	70e
ZC-4075 ZC-4076	4075	14	Triple 3 input NOR gate		75¢
ZC-4077	4077	14	Quad D flip-flop Quad 2 input exclusive NOR gate		\$1.65 75¢
ZC-4078	4078	14	Single 8 input NOR gate		75e
ZC-4081	4081	14	Quad 2 input AND gate	80e	75e
ZC-4082 ZC-4093	4082	14	Dual 4 input AND gate Quad 2 input NAND schmitt trigger		75e
ZC-4426	4426	16	Decade counter with 7 segment output	\$1.50 \$2.90	
ZC-4501	4501	16	Triple gate	\$1.95	\$1.00
ZC-4502		16	Strobed hex inverter	\$1.95	\$1.80
ZC-4503 ZC-4511	4511	16 16	Hex non-inverting 3 stage buffer		85e
ZC-4512	4512	16	BCD to 7 segment decoder/driver 8 channel data selector	\$2.45 \$1.95	\$2.30
ZC-4518	4518	16	Dual BCD up counter	\$2.20	\$1.80 \$2.00
ZC-4520	4520	16	Dual binary up counter	\$2.20	\$2.00
ZC-4526 ZC-4528	4526	16	Progammable divide by N counter		\$2.20
ZC-4538	4538	16	Dual monostable multivibrator Dual precision monostable multivibrator	\$1.95	
ZC-4543	4543	16	BCD to 7 segment decoder/driver	\$2.65 \$1.95	\$1.00
ZC-4572	4572	16	Hex gate	\$1.95	
ZC-4582 ZC-4583	4582	16	Look ahead carry block	\$2.90	\$2.80
	4583 40194	16	Dual schmitt trigger Hex schmitt trigger	\$1.50	\$1.25
ZC-4802	74HC02	14	Quad 2 input NOR gate		\$4.20 \$1,35
ZC-4900	74C00	14	Quad 2 input NAND gate	\$1.40	\$1.30
ZC-4902	74C02	14	Quad 2 input NOR gate	\$1.40 \$	\$1.30
ZC-4914 ZC-4921	74C14 74C221	14 16		\$1.85	
ZC-4922	74C922	18	Dual monostable multivibrator 16 key encoder	\$3.95 \$ \$9.50	\$3.50
ZC-4926	74C926	18		\$17.50	- 1
					- 1

### **CPU Memory**

	SPECIAL F	UNCTIONS				
		0110110110				
	1		Р	n		
	Cat 77 0000	Z80A CPU			1-9	10+
	Ont. 22-8000	Z80A CTC	41	Central processing unit Clock/timer/control cont	\$ 5.95	\$ 5.75
	Cal. 22-8005	Z80A CTC	28	Clock/timer/control cont	\$ 6.95	\$ 6.50
	Cat. ZZ-8010	Z80A PIO	40	Parallel input/output cont	\$ 5.95	
	Cat. ZZ-8015	Z80A S10	40	Serial input/output cont	\$14.95	\$14.50
	Cat. ZZ-8020	Z80A SIO1	40	Serial input/output cont	\$12.95	\$12.50
	Cat. ZZ-8025	Z80A S102	40	Serial input/output cont Serial input/output cont	\$ 9.95	
١					\$14.95	
١	Cat. ZZ-8035	Z80A DART	40	Dual async. rec'trans	\$12.50	\$12.00
١	Cat. 77-8048	6800	40	Dual async, reotrans CPU Central processing unit Cathode ray tube cont Central processing unit 8/16 bit microprocessor A RAM Peripheral interface CRT controller Asynchron Comm Intad	6 4 00	\$ 3.00
ı	Cat 77-8040	6602	40	Control	\$ 4.00	\$ 3.00
ı	Cat 77-9046	6645.1	40	Certifal processing unit	\$14.95	
ı	C+1 77 0050	0340-1	70	Cauriode ray tube cont	\$29.50	
1	Cat. 27 0055	6802	40	Central processing unit	\$15.95	\$13.95
١	Cat. 22-8055	6809E	40	8/16 bit microprocessor	\$ 5.00	\$ 4.00
ı	Car. 22-8058	6810	24	A RAM	\$ 2.50	\$ 2.00
ı	Cat. ZZ-8061	6821	40	Peripheral interface	\$ 2.00	
I	Cat. ZZ-8063	6845	40	CRT controller	\$12.00	
ı	Cat. ZZ-8065	6850	24	Asynchron Comm Intad	\$ 7.00	
ı	Cat. ZZ-8072	CDP1822	22	,	\$11.50	\$10.50
						\$ .80
	Cat. ZZ-8082	8T-26A/		o on Date (siin DACOO)	\$ 1.00	a .60
		MC6880A	16	Ound Date Bin		
	Cet 77-0140	1400	14	DE COO Far del	\$ 1.95	\$ 1.50
	Cet 77-9140	1400	14	no-232 line driver	\$ 1.50	\$ 1.35
	Cat 77 0166	00551	14	HO-535 IIIIB IBOBIVER	\$ 1.50	\$ 1.35
	Cal. 22-6155	8255IN	40	Parallel peripheral interface	\$ 9.95	\$ 8.95
	Cal. 22-81/1	FU17/1	40	Quad Data Bus RS-232 line driver RS-232 line receiver Parallel peripheral Interface Floppy diskette cont Octal buffer Octal buffer (invert) Octal buffer	\$39.75	\$35.00
	Cal. ZZ-8195	81LS95	20	Octal buffer	\$ 3.20	\$ 2.90
	Cat. ZZ-8197	81LS97	20	Octal buffer (invert)	\$ 3.95	\$ 3.50
	Cat. ZZ-8198	81LS98	20	Octal buffer	\$ 3.90	\$ 3.70
	Cat. ZZ-8204	11C90/				
ı		SAB1078	16	Binary to Hex 7 seg driver 1k x 4 static M 350ns 16k x 1 dynamic RAM 150ns 64k x 1 dynamic RAM 64k x 1 dynamic RAM 150ns 2k x 8 static CMOS RAM	\$33.05	
ı	Cat. ZZ-8208	9368	16	Rinary to Hey 7 sen driver	\$ 2.60	
ı	Cat. ZZ-8414	2114-5	18	1k v 4 static M 250ce	# 2.50	\$ 2.25
ı	Cat. ZZ-8416	4116	16	16k v 1 dunamic DAM 150cc	\$ 2.00	\$ 2.45
ı	Cat. ZZ-8420	4184	10	64k v 1 dynamic PAM 100118	9 2.95	
ı		4164	16	64k v 1 dynamic DAM 450	\$ 2.95	\$ 2.50
ı	Cat. ZZ-8422 Cat. ZZ-8430	0110	24	Ohn A Toyliamic HAM Toons	3.50	\$ 2.95
ı	Cet 77-0436	41250		2K X 8 SIBIIC CMOS HAM	\$ 3.99	\$ 3.50
ı	Cat. 77 0440	0004	10	200K PUAM 10UT/SEC	\$ 7.50	\$ 6.50
ı	Cat. 22-8440	0204	28	64kx 1 dynamic RAM 150ns 25k R 8 state CMOS RAM 25k RAM 150n/sec RAM EPROM EPROM EPROM 5k R 2kx 8 EPROM single 5V EPROM 4kx 8 EPROM single 5V EPROM EP	\$ 8.95	\$ 8.50
ı	Cat. 22-8450	2708	24	EPROM	\$ 6.95	\$ 6.50
ı	CBL ZZ-8451	1702	24	EPROM 256 x 8	\$ 2.95	\$ 2.00
ı	Car. 22-8454	2716	24	2k x 8 EPROM single 5V	\$13.50	\$12.50
ı	Cat. ZZ-8459	2732A	24	EPROM	\$10.95	\$ 9.95
ı	Cat. ZZ-8460	2732	24	4k x 8 EPROM single 5V	\$10.95	\$ 9.95
	Cat. ZZ-8464	2764	28	8k x 8 EPROM single 5V	\$ 8.95	\$ 8.50
	Cat. ZZ-8468	27128	28	8k x 8 EPROM single 5V EPROM EPROM 2 x 512 static bucket brigade	\$11.95	\$10.95
	Cat. ZZ-8470	27256	28	EPROM	\$16.95	\$16.25
	Cat. ZK-8801	MN3001	14	2 x 512 static bucket brigade	\$24.50	
	Cat. ZK-8805	AY-3-1015D	40	UART	\$11.95	
					\$11.95	
	Cat. ZK-8830	XR2206	16		\$12.50	*10.00
	Cat. 7K-8831	XR2211	14	Phase lock loop		\$12.00
	Cat 7K-8832	YP2240	10	Press Rock 100p	\$11.50	
	Cat. 7V 0034	MOTOTTO	10	Frog counter/timer	\$ 4.25	\$ 3.85
	Cat. 7V 8034	DC004	16	Imple differential line rec	\$ 2.95	
	Cat. 2K-0036	00201	16	CJ interrupt	\$ 2.00	\$ 1.80
					\$95.00	
	Cat. ZK-8845				\$ 3.90	
	Cat. ZK-8850	UA494	16	Switchmode power cont	\$ 5.95	
						\$ 2.65
	Cat. ZK-8862	MC13020	20	CQUAM stereo AM denodor	\$11.95	\$10.95
	Cat. ZK-8865	AM7910	28	World chip modern	\$20.05	+10.03
	Cat. ZK-8868	MC14411	24	Bit rate generator	e 0.00	\$ 6.00
	Cat. ZK-8869	MC14412	16	Modern	0.00	
	Cat 7K-8880	MC14490	10	Solenoid driver CQUAM stereo AM decoder World chip modern Bit rate generator Modern Hex CB eliminator	# IU.UU	\$ 8.00
	E-1-0000			Liev CD ellilliligiot	<b>3</b> 2.00	\$ 1.50

### Z80 Microprocessor

By todays standards the old Z80 is a pretty pedestrian CPU. Nowadays we only stock the 4Mt2 "A version. But guess what?" We have found a cache of old 280 pontal They were once had to get and will become had to get and will become had to get in the future. So at the prices shown below grab a few spores while you can. Standard 1.7MHz. 200 CTC 28 pin. 6.2.7.2.4009.

1.49.2.00 ex - 10.4.5.1.5.00 ex - 10.4.5.00 ex - 10.5.5.00 ex 2.2.4009.

Z80 PIO 40 pin Cat. Z2 1-9 \$3.00 ea - 10+ \$2.00 ea



### V20 (uPD70108)

8/16 bit high performance CMOS microprocessor - 8MHz. Replace the 8088 or 8088-2 in your IBM PC compatible and to 40% 40 pin plastic DIP case. \$23,95,10 µ \$23.95 10 up \$22.50 ea

AD590 Temperature Sensor

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Cat. ZD-1920 MOC3020/ MOC3021 1-9 \$3.45 Cet 7D-1928

10+ \$3.20 4N28/4N25 10+ \$1.30 Til 113

Opto coupler Darlington 10+ 80¢ Onto counte

1.0 \$12 50

10+ \$13.00 6N136 Low saturation voltage, high gain output Vcc = 7V max. data rate (NRZ) 300k bit/s • Current transfer ratio 300% min • Specified

voltage 3000Vdc 4N28 Darlington output Vcc = 7V max • Typical data rate (NRZ) 3k bit/s • Current transfer ratio 250% min • Specified input current 1.0mA • nd test voltage 2500Vdc. 6N138 4N28





# Sensor

The Pyroelectric infra red sensor ment is the 'eye' of a passive infra. red detector. It measures 10mm high, 9mm wide and only 6.2mm deep. The IRA.Foo1-P comes complete with full technical data including performance graphs. Information on the operating principle and two typical application circuits!

Typical applications: Burglar alarms

Proximity detectors · Automatic door/shutter switch

Toys, robotics Accident prevention/machine guard

· Electronic appliances · Automatic lighting (in toilet?)

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### 68 Pin PLCC Carrier

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### Texas Instruments TL-172C Hall Switch

This device is a TO-92 normally of onic switch that utilises the Hall Effect to sense the presence of a magnetic field. The TL-172C is actually an integrated circuit with signal conditioning, hysterisis functions and output transistor on the one chip. A magnetic field of sufficient strength is sufficient to switch the TL-172C into a low impedance (on conduction) state. Vcc +7V • Output voltage = 30V •
Output current = 20mA • Temp 0 • 70°C

Drive TTL level, transistor triac etc. Data sheet supplied with unit if

\$5.00 ea Cat. ZH-8902 10+ \$4.50 ea

For new designs, the MAX232CPE makes an excellent replacement for 1488 and 1489.

Features: • meets all EIA RS232C specs • generates ±9V output from 5V supply • highly useful when ±12V supply is required for RS232 drivers, but is not available • ±30V input levels • also converts RS232 levels to TTL levels • 2

inputs + 2 outputs \$12.95 Cat. ZK-8824



# **MAX 231**

14 pin dual RS-232 tran Meets all EIA RS232 specs. Operates from +5V to +12V, 2 drivers and 2 receivers. Onboard voltage cor ±30V input levels. Low power CMOS 5m4 Suited for computers, peripheral \$13.95 €

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GOLD INSERT -MACHINEED PIN -ANTI WICKING

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Cat. No 7905/I M340T5 +5V fixed ZV-1505 ZV-1506 7806/LM340T6 +6V fixed 78054 M340T5 +8V fixed 7V-1512 7812/I M340T12 +12V fixed 7815/LM340T15 15V fixed 7824/LM340T24 7905/LM320T5 ZV-1524 +24V fixed 7V-1525 ZV-1532 7912/LM320T12 -12V fixed -15V fixed ZV-1535 7015/LM220T15 +5V ZV-1539 78L05 low power +5V fived ZV-1605 1 M200K/7805KC +2.3V adj LM317K ZV-1615 +2.3V ad LM337T

ZV-1620 ZV-1624 -1.2 - 37V 2.5V ref LM336-2.5 ZV-1635 ZV-1645 LM3508 LM396K ZV-1675 ZV-1676 LM723CN

1A 1.5A 1Δ -2.3V adj +1.2 - 32V adi 150m4 150mA

TO-220 14 TO-220 1A 14 200mb 1.5A 10mA

1A

TO-220 TO.220 TQ-220 TO-92 TO-5

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TO-220 TO-220

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\$1.65 \$1.50





### **LED Bar Graph**

Jaycar has introduced this great LED array for our 1988 new product line-up. It has 7 green and 3 red rectangular 5mm x 2.5mm LEDs mounted in a black housing, Ideal for VU meters or where any easy visual dipping level is required. Cat. ZD-1702

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RQ-5268 2.000MHz (HC-18(K))	\$ 8.50
RQ-5269 2.4576MHz	\$ 8.50
RQ-5271 3.000MHz (HC-18(K))	\$ 5.50
RQ-5272 3.5795MHz	\$ 4.00
RQ-5274 4.000MHz (HC-18(K))	\$ 5.50
RQ-5277 4.433619MHz (HC-18(K))	\$ 5.50
RQ-5280 4.9152MHz (HC-18(K))	\$ 5.50
RQ-5283 5.000MHz (HC-18(K))	\$ 5.50
RQ-5285 8.0000MHz	\$ 5.50
RQ-5286 8.867238MHz (HC-18(K))	\$ 5.50
RQ-5289 10.000MHz (P) (HC-18(K))	\$ 5.50
RQ-5291 10.695MHz (HC-18(K))	\$ 1.95
RQ-5292 12.000MHz (HC-18(K))	\$ 5.50
RQ-5294 16.000MHz (HC-18(K))	\$ 5.50
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ZR-1100 ZR-1112 ZR-1122 ZR-1124 ZR-1130 BB100 ZR-1141 OA91 Germanium 5082 - 2800 W04 1.2A 400V bridge 7R-1160 ZR-1304 P04 6A 400v bridge ZR-1314 ZR-1324 MDA3504 35A 400V bridge

20e 35e 17e 30e \$1.50 \$1.30 \$3.20 \$3.00 \$2.50 \$2.20 6A 1000V stud mount 10A 100V stud mount 1N914/1N4148 signal BA102/BB119 Varicap 204 BB212 AM varicap dbl

\$4.05 \$4.75 \$1.20 \$1.10 250 29¢ 25¢ \$5.75 \$5.50 95e 90e 40e 350 \$3.20 \$3.10 \$1.0 004 \$3.35 \$3.20 \$8.50 \$7.95

12c



### **Economical** Diode Packs

100 x 1N4004 1A 400V Rectifier Cat. ZR-1005 100 x 1N4007 1A 1000V Rectifier Cat. ZR-1008 100 x 1N914 Signal Diodes Cat 7B-1105

### LED/CDS Cell Opto Isolator

Cat. 7D-1980 \$3.00

### Zener **Diodes**

ZR-1427 27V ZR-1420 20V

ZR-1433 33V

ZR-1436 36V

ZR-1430 30V

ZR-1398 3V3 1N4728 ZR-1399 1N4729 ZR-1400 31/0 1N4731 ZR-1402 4V3 1N4732 ZR-1403 5V1 1N4733 ZR-1404 1N4734 ZR-1405 6V2 184726 1N4736 ZR-1407 7V5 1N4737 ZR-1408 8V2 1N4738 ZR-1409 9V1 1N4739 ZP 1410 101 184740 ZR-1411 11V ZR-1412 1N4742 ZR-1413 13V ZR-1415 1N4744 ZR-1416 16V 1N4745 ZR-1418 18V 1N4746 ZR-1420 20V 1N4747 ZR-1422 22V 1N4749 ZR-1424 24V

1N4749

1N4751

18/4769

N4753

39¢ ea 10 or more 35e each

ZR-1475 75V 1N4761 \$1.20 ea 10+ \$1.00 ea ZR-1450 15V 1N \$1.50 ea 10+ \$1.40 ea ZR-1445 6.8V 1N5352B 5W \$1.00 ea 10+ 80c ea ZR-1440 12V 1N5349B 5W \$1.50 ea 10+ \$1.40 ea

### **HKZ101 Hall Effect** Vane Switched Device

This device manufactured by Siemens in Germ consists of a Hall Effect semiconductor sensor separated across a small gap by a magnet. In its normal state the Hall sensor (with inbuilt output transistor) is condiucting. It will sink up to 40mA between the impressive temperature range of -30 to

+130°C. When an iron vane is introduced into the gap between the Hall element and the magnet, the output transistor switches off. The HKZ-101 is hermetically sealed, resistant to petroleum products and incorporates metal buhsed mounting holes to facilitate fitting to a carrier plate, bracket, etc. It is ideal as the commutator for an electronic ignition, however it has many other uses in other areas. Lead connections Red V+; Green Signal (on/off); Black earth Cat. ZD-1900 \$34.95



See Automotive kit section for full specs

### **Photo** Interrupter

This device enables you to turn a circuit on and off optically. It consists of a moulded plastic housing with an IR LED facing a photographic across a gap. Any object in the gap will interrupt the IR beam and consequently switch the phototransistor on and off. The device is very fast and ideal for counting. timing or sensing. FEATURES:

· PCB or chassis mounting · Low cost · Rugged one nstruction · Very fast APPLICATION:

 Counter sensor • Tachometer • Opto ignition • Edge sensor • Tape end sensor

Full specs supplied with each unit Cat. ZD-1901 \$8.95 ea 10+ \$7.95 ea



### Solar Cell Module

Great experimenters Solar Module, Connect in series or parallel as you wish. Terminal strap enables easy interconnection to other cells Cat. ZM-9006

\$6.50



### **Packs** Electrolytic Pack

55 quality most RB types electrolytics supplied Values range from 1uF to 470uF. Voltages from 16 to 63

Cat BE-6250 \$6.50 55 In pack



- metallised polyester 60 top quality prime spec greencaps supplied From 0.001uF to 0.22uF, all

Cat. RG-5199 60 in pack



\$7.95

### Ceramic **Pack**

80 top quality prime spec 50V working ceramics Values from 10pF to 0.1uF.

Cat. RC-5399 \$5.95 60 in pack



### **Blue Chip** Capacitors

Extremely small 50V high quality ceramic type. Low inductance for hunges applications 0.01uF PACK OF 100

\$12.50 Cat. RC-5495 0.1uF PACK OF 100 \$16.50 Cat RC-5498



### Precision Capacitor Pack

1 & 2%

Stock up now. These are normally \$3 to \$4 each. Values range from 220nE to 0.22uE We supply 2 of each value up to 7 different values. Most are 1% with some 2%

PACK OF 20

\$12.50 USUALLY WORTH Cet RG-5198 \$60,00

## Mixed **Capacitor Pack**

Don't miss this bargain! This pack contains approximately 150 assorted canacitors. Not junk values. most are normal stock lines. Here's what you get: RT Electro

RB Electro

Greencan

1uf, 4,7uF, 25uF, 100uF, 220uF, 470uF most 63V 1uF. 2.2uF. 25uF. 4711 100V - 0.0022uF. 0.01 0.22 106 630V - 0.022uF. 0.1uF

Ceramic 4.7pF, 47pF 220pF, 470pF, 0.022uF 220oF, 820oF. Polystyrene 2200pF 330pF, 470pF, 1kV Ceramic 680pF

PLUS LOTS MORE 150 PRIME SPEC

CAPACITORS FOR \$10.00

THAT'S ONLY 6.6¢ FACH!! SAVE 84% At our current prices these caps are worth \$61 00ll

Cat BE-6260 We reserve the right to make changes to this pack if stock shortages occu



### Metal Film Resistors

supplied. Again, more common values Cat. BR-0650 \$6.95 150 IN PACK

### Resistor Networks

50 assorted values, top quality, 10 lead resistor networks. This pack would normally be worth \$40 - values range

Cat RR-3380 50 IN PACK

- that's 20¢ per network! \$10.00

## **Bargain Bags**

Contains approximately 2kg of assorted ectronic goodies - 'JUNK' if you like, but all brand new components etc. Ideal to fill up your junk box. We expect have these available at most times, but availability does depend on how much junk we can find. Unfortunately due to the massive weight nan is normal rates plus \$2.50

Cat. XB-9000

\$12.95

### HURSTVILLE 570 7000

### Mixed Electrolytic Capacitor Pack

Another absolute bargain. This pack contains approximately 80 assorted RB RT style electrolytics. Most are standard Here is what a typical pack contain

uF Values: 1, 2.2, 10, 22, 25, 47, 100, 150, 220, 470, 680, 4700, 10000 Voltages: 6.3, 10, 16, 25, 35, 40, 50, 63,

OVER 80 CAPACITORS FOR \$10

That's only 12.5¢ each, Our cheapest stock electro costs 28¢, and some supplied in this pack cost as much as \$3 each! We reserve the right to make changes

to this pack if stock shortages occur \$10



### 1/4W Resistors

Over 300 1/4W 5% 1st grade resistor are supplied in this pack. We supply more of the popular values. From 10 ohms to 10M ohm Cat. RR-1680

OVER 300 IN PACK that's less

\$6.50 than 2¢ each!!



A pack of at least 35 potentiometer which includes slider pots - single and dual, an assortment of pots and tab style pots with assorted shafts and a selection of quality 5mm vertical sealed trimpote and open 5mm horizontal styles. This represents exce at only \$10. Cat. RP-3902 \$10



PACKS OF 100 UNITS 5mm RED Cat. ZD-1690 \$15.50 3mm RED Cat. ZD-1692 \$19.50 Assorted pack consisting of 20 x 5mn red, 20 x 5mm mixed (green, yellow, orange), 40 x 3mm red, 20 x 3mm mixed (green, yellow, orange) BONUS n mounting hardware AT NO Cat. ZD-1694 \$19.50

#### **Transistor** Pack

100 mixed BC series transistors. More of the common ones Consists of:

15 x BC547 • 20 x BC548 20 x BC549 • 15 x BC557 15 x BC558 • 15 x BC559 Cat. ZT-2170

100 IN PACK \$11.95



### Semiconductors

This pack includes EPROMs, RAM, CMOS, TTL, Transistors, diodes and Zeners - the EPROMs alone are worth \$10.00II Cat 7P-8990

100 SEMIS FOR

\$10.00

### Diode

1N914 Signal Diode Cat. ZR-1105 PACK OF 100

\$4.95 1N4004 1A 400V Rectifier diode

Cat 7B-1005 PACK OF 100

### \$7.50

1A 1000V Rectifier diode Cat. ZR-1008 PACK OF 100 \$14.00

### Slider Pots

You don't see this very often. A pack of 20 sliders in assorted values between 5k and 500k, 20 for \$10. That's only 50e each! The majority in the pack are dual gang which have been selling for \$5.50 each. A typical pack includes values such as 5k, 50k, 100k, 250k, and 500k in 45 and 60mm lengths in single and dual GET ONE WHILE THEY LAST!

Cet BP-3903 ONLY \$10.00



### **Alligator** Clips

HM-3064 Mini red 26mm CHALL 40¢ 10+ 37¢

Mini black 26mm 40¢ 10+37¢

Medium red 32mm

50e 10+ 45e Medium black 32mm 10+ 45e



HM-3058 IC alligator clip rec 30¢ HM-3060 10+ 27¢

IC alligator clip black 30€ 10+ 27e



## **Battery** Type Clips

EXTRA LARGE These have insulated colour coded handles and will clin over a car battery terminal. Total length 110mm. Jaw opening - max 20mm. Cat. HM-3062

\$2.50 pr 10+ \$2.25



### Alligator Line Clip

3 way TV clip for fastening antenna lead in to TV. Cat. HM-3050 80¢ ea

10 up 70¢ each



### IC Test Clips

LIAMS

These have a syringe action and are ideal for working with small components.

DED RED Cat. HM-3040 BLACK Cat. HM-3041 \$1.20

10 or more \$1.10 each

MEDILIM 90mm IC clip RED Cat. HM-3044 90mm IC clip BLACK Cat. HM-3045 \$1.50

10 or more \$1.35 each

LARGE 137mm IC clip RED 137mm IC clip BLACK Cat. HM-3047

\$2.75 10 or more \$2.50 each

### Egg Insulator

Senuine porcelain - not plastic. A high quality porcelain heavily glazed insulator. Will last a lifetime as it is impervious to the UV effects of sunlight. 32mm long, 23mm diameter (approx) 5kV rated

Cat. LF-1080 950

10 up 85¢ each

Mini Coil Pack

Pack of 4 standard AM transistor radio coils (red black, yellow and white) IF, osc, etc. Cat. LF-1050

PACK 4 \$2.50 F16

Ferrite Slug

\$1.20

### **Ferrite Parts**

### Balun

Formers Ideal for RF matching

Also used to match300 to 75 ohm TV antennas LARGE: Type 1050/1/F14 40MHz to 200MHz Cat | F-1220

95¢ each 10+85 SMALL: Old No.: Type 1050/2/F14

New No.: Type 42-002-31 10MHz to 250MHz Cat. LF-1222 95¢ each 10+85¢

NEOSID FORMER No: 52-001 60

Cat. LF-1224 \$1.20



### Toroidal Ring Cores

Suitable for interference suppression fiters, pulse transformers and broadband transformers. They have no air gaps and are the powdered

LARGE: LARGE: (Old No.: Type 17-146-10; New No.: Type 17-745-2) Size 44 O.D. x 24 I.D. x 16.5mm(H) Cat. LF-1242

\$11.95 SMALL . (Old No.: Type 17-132-10; New No.: Type 17-732-22) Size 15 O.D. x 7.5 l.D. x



### **Ferrite Beads**

Cat. LF-1240

Used in many projects for suppression. Mount throug transistor legs. Size 4mm O.D. x 2mm I.D. x 5mm long Alternating frequency rang 50kHz - 500kHz Cat. LF-1250

20¢ ea 10 up 16¢ each

#### Tube Cores

Ideal for making small inductors for RF suppression/ bypass. Simply loop a short length of enamelled copper wire back through. Low cost RF/spike suppression!
Siemens B62110-A6021 type
Dimensions: 18mm long, 6mm
dia., 3mm dia. hole

PACK 10 Cat. LF-1210 \$1.00

PACK 100 Cat | F-1212 \$6.00



#### Pot Cores Cat. LF-1265

FX2242 Cores (pr) \$12.50

Cat. LF-1266 FX2242 Robbin .90 Cat. LF-1260 FX2243 Cores (pr)

\$24.95 Cat. LF-1261 FX2243 Bobbin

\$ 1.25



### **Ferrite** Rod

TYPE 1 Length 200mm x 9mm diameter - round Cat. LF-1010

\$1.50 ea 10+ \$1.20 ea TYPE 2

Length 120mm x 9mm diameter - round Cat. LF-1015 75¢ ea 10+ 50¢ ea

Length 79mm x 13mm - flat Cat. LF-1018 75¢ ea

#### Bargain RF Choke

10MHz - 100MHz. Uses Philips Ferrocube bead with 3 turns of tinned wire, Will carry 2 - 3 amps so is ideal for in-line RF attenuator in power supply wiring.

\$1.00 each 10 up 80¢ each



#### Modulator As used in our Colour Bar

Pattern Generator kit. Tuned to channel 1 Australia. Operating voltage 6 - 12V DC Cat. LM-3845 \$12.95

10+ \$12.50 ea



### Quality Video/ Audio RF Modulator

Our best ever unit. This modulator has been specially built to our stringent specifications. It is a VHF unit switchable to Aust. Ch 3 or 4. The audio is placed at the correct subcarrier frequency and output frequency is stable with good strong signal, Full specs (we mean FULL) are supplied with each unit. Cat. LM-3848

\$19.95

## New for

### Make Printed Circuit Boards from Magazine pages with "PHOTO ETCH™" Printed Circuit Kit ER-4

The REVOLUTIONARY Photographic way that makes perfect printed circuits from original artwork or a magazine page!

CAMERA DARKROOM FILM CUTTING

It's so simple! The ER-4 Photo Etch Kit contains all the chemicals necessary for any hobbyist, engineer or student to create professional circuit boards. Use this kit to generate your own 1:1 artwork or use magazine art, then use the patented Pos-Neg cess to make a photo negative, sensitize and expose a blank copper board, develop and etch it. The magazine page is not destroyed in the process. No darkroom or camera is required. All necessary materials and tools are included: 5 x 6 Print Frame, 4 sheets photo copy film (ERS), 16oz. resist developer (ERB), 4oz. negative-acting etch resist (ER71), 2 blank copper circuit boards (ER11), dry concentrated etchant (ER3), film developer and fixer (ER6) DETAILS OF KIT CONTENTS:

120 x 148mm steel printing frame with glass and backboard • Pos-Neg™ yellow filter • 4 sheets photocopy film • 450ml each of film developer and fiser • 100 grams negative photo resist liquid • 200 grams resist developer • 120 x 148mm and 78 x 114mm copper clad circuit boards • 500 grams anhydrous Ferric Chloride • 2 sheets polyester drafting film • 1 roll each 1.5mm and 0.75mm tape • 8 sheets dry transfer direct PC patterns including donut pads, lines, jogs, DIP and round can IC's, transistors, edge card connectors • 12 page instruction book Cat. NC-4260

\$99.00

REMEMBERI You only need 1:1 artwork or 1:1 artwork from a magazine page and you can have your own copy of the PCBI The artwork or the magazine page is not destroyed in the process.











## Spare chemicals/material to enhance your PCB production

## Film Developer & Fixer Replacement Pack ER-6

Contains three packets of chemicals to make 450ml of high contrast lithographic film developert and 450ml acid fixer. Handles up to 15 sheets of 125 x 150mm Pos-Neg film. \$10.95

## Copying Film ER-5 or ER-9

This polyester base film is dimensionally stable and is capable of making a negative or a positive from either opaque or translucent artwork in one step. No intermediate film is required. Exposing is done through a yellow filter to obtain a positive image from a positive original. Negatives are prepared with a yellow, the a white light exposure. One film surface is matte. It will accept retouching with a white light supposed. One improve that the proof of the

Supplied in two sizes: ER-5 gives you 6 sheets 125 x 150mm in a light proof bag. You can use the print frame supplied with the ER-4 kit or use the larger ER-10 Cat.

6 sheets 125 x 150mm Cet NC-4270

\$17.95

ER-9 gives you 2 sheets 200 x 275mm. (The ER-10 print frame or similar contact \$17.95 2 sheets 200 x 275mm

Large Contact Printing

## **Exposure Frame**

Large format (225 x 300mm) spring-loaded steel printing frame will accept 215 x 275mm artwork originals, photocopy film and sensitized printed circuit boards.

Comes complete with glass, backboard, yellow Pos-Neg™ filter and instruction \$34.95 Cet NC-4280

## PCB Etch Resist (ER-71)

A liquid cinnimate resist in bottle with pump sprayer. May also be flowed on. The coated board is exposed to UV through a negative of the circuit pattern, then developed in ER-8 liquid, Unexposed parts of the resist coat are dissolved, while the exposed resist pattern stays to protect the copper when etched. One bottle ats over 1 square metre. \$18.95 Cat. NC-4266

## **Etch Resistant** Developer ER-8

A solvent blend that will develop ER-71 and other negative-acting photo resists Resist areas that are not hardened by UV light are dissolved away. Hardened areas are unaffected. Similar to Kodak KPR which can be used in its place \$11.95

## Copper PCB Tin Plating Solution (ER-18) Electrolysis

TINNIT is designed to plate bare copper circuit boards to enhance solderability. It has also been used to plate edge card connector fingers on prototypes when a low, stable contact resistance is needed, but gold is not available or desired. The 450ml size of TINNIT will plate up to 0.4 metre of copper with approximately 0.01 mm of bright tin. Plating is complete after about 10 minutes in a fresh solution. Adhesion and solderability are excellent. No electricity is required; the material tends to plate any metal that is chemically more active than tin and is not oxidised by the plating bath. TINNIT has been successfully used to plate brass, bronze, iron and some carbon steels. The material is supplied as a dry mixture with an indefinite shelf life. When mixed with water, the solution has a life of approximately two months. You need add no acid or other materials to this solution. TINNIT contains all plating chemicals plus surfactants and cleaners to insure a perfect plate.

\$11.95

As demand for greater PCB density increases so does the need for a more professional approach to PCB design. To help in this

regard, Jaycar stocks a comprehensive range of PCB artwork materials from BISHOP GRAPHICS of the USA. This material is both dimensionally stable and accurate which, enables you to produce complex layouts with great accuracy. (Very necessary for LSI. for example). Once your

you can make your own board Why Bishop Graphics Artwork Is Superior

artwork has been produced

We have offered many 'equivalent' PCB artwork tapes over the years at lower prices to the genuine Bishop Graphics material. Why do we stick with it? Well it's the one the

professionals use and they know why. Now you can know tool The artwork is very accurate. For example the DIL patterns are made to erance of 0.002".

2. The line tape is precision slit from large rolls under very low stress

ecise edges. The line tape is very flat black. It will not reflect light and so the line will not blur due to reflected light. Result? Absolutely sharp edges to trackwork.

4. The benefits of Crepe. The tape is 'creped'. This allows tape to b curved, a saving on corner art. Once down the curve will stay where it is. Inferior tapes try to 'creep' back to straightness. Another advantage of crepe is that you can cut through a line by mistake, realise your er urnish the tape down again. The Bishop tape will close again. Inferior tapes can leave a

hair line crack of light ar circuit track on your PCBI Finally, to state the obvious - the tape is extremely flexible

5. The tape is only 0.005" thick. This ans that the tape will not caste a 'shadow' because of its thickness 6. The secret adhesive. You can lay Bishop art down, peel it up again and relocate it many times. PCB artwork necessitates this and this is a valuable feature. It stays stickyl

7. Another secret. The adhesive d not 'bleed'. By this we mean that the adhesive will stay where it should be under the art. Inferior adhesives creep away in time and the edges lose definition as a result. You can come ack to Bishop Graphics artwork after a year and find no adhesive anywhere except under the art.

8. It's the most cost effective. You labour is money. When you spend a lot of your valuable time on interior artwork tape you - or your client - is losing money! More than the small nge between cheap artwork tape and value-for-money Bishop

**Pads** 

## Pre-Spaced

Cat. No Type Pac HG-9906 0.100\* pitch 2.54mm 240 \$5.60

HG-9907 0.100\* pitch 2.54mm 140

000000 HG-9908 0.156" pitch 3.96mm 150

## **Patterns**

Cat No HG-9909 14 32 \$5.60 HG-9910 16 \$5.60 HG-9911 18 HG-9912 24 \$5.60 \$5.60 HG-9913 28 HG-9914 40 \$5.60 888888

Black Artwork Tape

Cat No. HG-9930 0.026\* wide \$3.95 HG-9931 0.031" w ide HG-9932 0.040\* wide \$4.25 HG-9933 0.050° wide \$4.25 HG-9934 0.062" wide \$4.30 HG-9935 0.080" wide \$4.30 HG-9936 0.093" wide \$4.30 HG-9937 0.100" wide \$4.30 HG-9938 0.125" wide \$4.30 HG-9939 0.200" wide HG-9940 0.250" wide \$5.20 All by 20 yards



## **Targets** These are designed to simplify and

improve photo reduction and registration (the accurate placement of symbols and circuitry) during all stages of printed circuit artwork and board production. Cat. HG-9928

\$5.60



## Transistor **Patterns**

TO-5 (36 pads) \$5.60 TO-18 (36 pads) Cat. HG-9924

\$5.60



## **DIL Patterns** Narrow Cut

HG-9918 14 33 HG-9919 16 33 \$5.50 HG-9920 40 \$5.60

Edge Connector **Patterns** 

0.1° pitch (25 strips) Cat. HG-9950

\$5.50 0.156" pitch (5 strip Cat. HG-9952 \$5.50

Donut Pads

Cat. No Type Sy HG-9941 0.080° OD x 0.031° ID96 HG-9942 0.100° OD x 0.031° ID96 HG-9944 0.125" OD x 0.031" ID96 HG-9945 0.156" OD x 0.031" ID96 HG-9947 0.200° OD x 0.031° ID108 HG-9948 0.250" OD x 0.031" ID128 All at \$4.30 each



**Polyester** Always use a background grid during ed circuit artwork and layout preparation to ensure maximum accuracy on the final PCB, 10 x 10 grid,

matte one side - 0.003" thick. This is the material you lay your patterns on. 8.5 x 11° PACK OF 2 \$4.26 11 x 17" PACK OF 2 Cat. HG-9960 \$7.50

ACTUAL SIZE

## Pressure Sensitive Copper Tapes

conductor traces on a PCB. Use to modify circuitry on existing PCR's 0.031" wide \$4.30 Cat. HG-9902 Cat. HG-9903 0.050" wide \$4.30 0.100° wide \$5.35 All 6ft long.

## Artwork Accessories

X-ACTO KNIFE \$4.65

00000 X-ACTO BLADES Trim pack of 5 Cat. HG-9956 \$3.95 X-ACTO BLADES Art pack of 5 Cat. HG-9957 \$3.95

## "Riston"

This is basically blank printed circuit with a photo-resist factory deposited on it. A photo resist is a chemical that changes composition when exposed to light. Once you take the "RISTON" and PCB out of its lightproof black plastic envelope you have a reason-able amount of time to lay your PCB pattern on the board. Where the PCB pattern falls, the chemical resist will be in shadow or "masked" by the You can expose the PCB pattern and

board in broad daylight, however a controlled source of ultraviolet light is recommended. After a suitable time you remove the PCB pattern. Where the "RISTON" coated PCB was in shadow the photo resist will not have changed chemical composition. Where it has been exposed, it will. You then apply a developer to finish the photo resist proo After this you simply dip the PCB into

## Riston PCB

Single side 127 v 152m \$6.50 Cat. HG-9970 Single side 152 x 254n \$12.00 Cat. HG-9972 Single side 254 x 25 \$23.50 Cat. HG-9974

CCRD30 Developer

500ml Cat. HG-9964 \$3.50

## Stripper CRS-40

before soldering 500ml bottle Cat. HG-9968 \$4.35

DaloPen

for one off PCB production. Etch resistant ink. Includes spare tip. Cat TM-3000 \$4.75

## 8007 Scotchcal

### USED WITH BOTH RISTON AND SCOTCHCAL

This is known as exposure film and is Size 10" x 12". Use this film to produce either negative or positive from your original artwork. If you have positive artwork this film will reproduce it as a negative and conversely if your artrk is negative this film will reproduce it as a positive. The film is

then used with either Riston or Scotchcal to produce your final Cat. HG-9962

\$7.95 SCOTCHCAL -

## **3M** We also stock PCB and panel

production materials made by the US 3M company.
PCR PRODUCTION Liquid photo resist in both positive and negative acting configurations are stocked. The liquid is applied to blank, dean PCB with a cotton wool swab.

The board is allowed to dry (in a dark location). The board and artwork (film) is then exposed in the same manner as Riston (Note that the negative resist i.e. CNR05 will resist where it is EXPOSED). You then use the appropriate developer and etch in the usual manner. If you have positive artwork and want negative (or visa versa) use 8007 reversing film. If you make a lot of PCB's the 3M system is cheaner than Riston in the long run.

## **Positive** Photo Resist CPR<sub>05</sub>

This photo sensitive product is used in the production of PCB's. Cat. HG-9980 50ml

\$8.95

## Negative Photo Resist CNR05

This product is similar to the CPR05 product. The difference being that this is a negative working compound Cat. HG-9983 50ml

\$6.10

## Developer CPD07 for Positive

This solution is used in conjunction with CPR05 for developing the PCB pattern. Cat. HG-9981

70 grams \$3.50

## Developer CND5 for Negative

This solution again is similar to the CPD07, the exception being that this one is used in conjunction with the negative photo resist. 500ml

\$8.90

## Stripper **CRS-40**

Strip your boards clean before soldering. Cat. HG-9968 500ml

\$4.35

## **Panel**

## Scotchcal

This is the 3M name for their system producing professional grade panels from artwork but without professional facilities. You can make your finished project look great with a Scotchcal front

Like Riston, Scotchcal has the photo resist already on it. You expose the Scotchcal in the usual way. Develop with 8500 solution and remove exposed material with CRS-40 stripper (equivalent to an etchant). It is really that simple!

## Aluminium Scotchcal

This Scotchcal product is available in noth red and black. This means when the material has been developed the front panel will be either red or black on either. You will end up with professional front panels. We recommend you spray the finished panel with clear lacq (Cat. NA-1002) to maintain the clean

SHEET SIZE 10" x 12" Cat. HG-9988 BLACK EMULSION Cat. HG-9989 RED EMULSION

\$9.95 ea

## **Plastic** Scotchcal

This is similar to the HG-9988/9989 except that the background finish is white plastic, not silver. Three different colours are available, all with WHITE

SHEET SIZE 10" x 12" RED on WHITE Cat. HG-9990 BLACK on WHITE Cat. HG-9991 Cat. HG-9992 BLUE on WHITE

\$9.95 ea

### 8500 Developer This is a clear liquid which enables the

user of Scotchcal aluminium or plastic materials to develop the exposed Cat. HG-9966

\$3.35

### Stripper **CRS-40** 500ml Cat. HG-9948 \$4.35

SPECIAL NOTE: DO NOT MIX 3M DEVELOPER WITH

RISTON DEVELOPER **Positive** 

Photo Resist Spray

This aerosol is a fast drying positive photo resist for one to one reproduction of circuit, diagrams and images on metals from transparent positive

masters. (Film) Up to 50% cost saving achieved compared with using pre-coated boards
Outstanding resolution - better than

· Ability to achieve extremely thin edge to edge uniform coating thickness Easy to apply, quick drying, safe and simple to process Covers approximately 2.2 sq/m
 Cat, HG-9976

\$7.95

## Developer

above photo resist aerosol sprav. Cat HG-9978 \$9.50

## Chemistry

Ferric Chloride

Cat NC-4252 \$2.75

## **Ammonium**

### Persulphate The alternative to Ferric Chloride

Mix contents (400 grams) with 1.5 litres of hot water to etch copper board approximately 500sq/cm. Supplied in child safe bottle.

Cat. NC-4254 \$6.95



## **Powerful** 6000 RPM Mini Drill



work. 12V DC operated from external power pack. 1.2mm chuck capacity. Supplied complete with 1mm drill bit.

\$19.95

HETRO S

Drill Bits for PCB work Cat. TD-2408 0.8mm \$2.20 Cat. TD-2410 1mm \$2.20

## Magnifying Glass

A must for the hobbyist. This huge 4.5" diameter viewer allows hands free operation. It will fold into a neat and easy to store package. Cat. QM-3505



## Super Glue Sticks in seconds, no clamping

required, no mixing, no mess Thousands of uses Cat. NA-1500 \$3.35 Standard tube size



## Insulation **Tape**

Top quality PVC tape. Thousands of ole. 19mm wide COLOURS: RED. BLACK, YELLOW, **GREEN & WHITE** 

5 metre roll 40¢ Cat. NM-2800

20 metre roll - red

\$1.00 Cat NM-2802 20 metre roll - black

\$1.00 Cat. NM-2803



## Service 2hiA

There are many brands of spray can products on the market. These vary from excellent quality to extremely poor. As with most things the more you pay. the better they get. We have elected to bypass the cheap, inferior types and only stock top quality brands, such as Flectrolube. You will pay a little more, but isn't it worth it?

## Video Head Cleaner

A-F spray whilst de sinned for cleaning metal surfaces and leaving no resid absolutely ideal for cleaning video heads It comes with an ex tension tube to get to remote spots. Leaves absolutely no residue and blasts away grime

scratching. A sound investment in VCR care. Also great for audio heads Cat. NA-1007 400 gram can

## \$10.50

## Clear Circuit Lacquer

A flexible clear coating for protecting printed circuit boards. Special solder through lacquer, eq. previously coated boards can be soldered Great for Scotchcal front

panels tool
ELECTROLUBE BRAND Cat. NA-1002

\$6.75

## **PCB Cleaning** Solvent

It may not be obvi but many circuit problems occur when flux and other residues (even finger prints) remain on the PCB causing 'leakage' If you work RF, high impedance (i.e. FET OP amps etc), loniser or other circuite DCD deanliness is a MUST The Jaycar PCB cleaning solvent is a spray that dissolves all flux residues and grime leaving the track work and board absolutely clean. We then recommend that you 'tropicalise' the underside with sprayon lacquer, (Also available Cat. NA-1002 \$6.75) Cat. NA-1002

\$5.95

## Mosture Repeller

This 400 gran specially forr marine electrical and electronic applications. Dries out wat ignition

metals against nust or corresion Quickly pene trates and frees rusted parts Lubricates close fitting parts

 Stops battery corrosion and much Cat. NA-1020 \$4.95

### Spray Freezer BECTROUB

components for finding intermittent faults, dry ioints and over-heating ELECTROLUBE BRAND

\$6.60

## Potentiometer Lubricant

lubricant designed for sider note Can be used safely with metal to metal, metal to plastic and plastic to lastic parts. The anti-friction properties will ensure the controls will not Ideal for lubrication of

parts under pressure. Cat. NA-1012

\$7.95

### Conductive Varnish ARISTE

This handy 200 gram spray enables you to do all manner of things. You can spray sheets of Styrene foam and for storing your MOS ICs. Far cheaper than other methods! You can make conducti boxes to shield RF You can re-coat the back of CRTs, You parts of equipment

cabinets to reduce static. The naint dries to a hard varnish like film. Non inflammable and non toxic. Grab a can now. You never know when you might Cat. NA-1010

\$8.95

## Electronic Cleaning Solvent

pended for cleaning tuners, switches plugs and sockets, pots. ralavs, etc. Low toxidity on-corrosive with long tube for hard to get to Cat NA 1004 340 gram

\$6.50

## Nickel Screening Compound

This spray aerosol is an rically conductive coating based on Nickel powder with an acrylic carrier resin. It is an extremely afficient FMI/RFI screening coating. It will adhere to a wide variety of sub-strates and can be used to coat cabinets for a variety of electronic & electrical housings. Excellent surface resistivity (0.7 ohms ner so at 2 thous

Excellent adhesion to wide variety of substrates including ARS and many other plastics.

 Fast drying at room temps. Approximate coverage: 1 sq metre at dry film thickness Cat NA-1014

\$26.95

Air Duster It's pure compressed inc gas for removal of dust and air borne contamination from very delicate and inaccessible areas of electrical and electronic

400 ml spray pack 550g nett. Cat. NA-1018 \$11.95

"Plasti-Dip" Heavy Duty Flexible Liauid Coating

Plastic Dip is an air dry liquid plastic coating that produces a tough, thick pliable finish It is virtually impervious to the elements & has good dielectric strength. It is ideal for making a pliable coating for the handles of tools, etc. It also provides excellent environmental protection

for circuit boards, etc. Supplied in a 470ml dipping can. Will do dozens of tools. Cat. NP-1.100 Red colour

\$24.95

## Solder **Hobby Pack**

ECTROLIS

CYROLUS

cored quality solder. \$1.30 Cat NS.3013



Reel ultable for all types of electronic Resin cored and including bit saving additive. Cat. NS-3010 \$7.95

10+ \$7.50 ea



## De-Solder Braid

A specially treated piece of braid for removing solder from a PCB. Place the braid over the solder and apply soldering iron to efficiently remove solder \$2.50 Cat NP 2000 5 feet long!



## Heatsink Compound

Heat conducting paste facilitates heat transfer from semiconductors to heatsinks. One tube will do up to 30 TO-3 package transistors.



Cat NM-2010

\$3.50 150 gram tube Cat. NM-2012





**BRISBANE 07 393 0777** 

## **Breadboards**

Jaycar breadboards are a convenient and economic way to build circuits and test parts without soldering. Components can be then reused many times.

Made from ABS Polymer. Internal contact terminals are made of alloy of silver and nickel and then plated. Resistance is under 1 milliohm at 1kHz. LIFETIME GUARANTEE

### Breadboard Specifications

Cat. No	Length	Width	Weight	Tie Points	5 Con* Term		Binding Post	IC Cap*	Price
PB-8810	172	13	10	100		4			\$3.75
PB-8812	172	39	10	640	128			9	\$10.75
PB-8814	172	65	10	840	128	8		9	\$17.50
PB-8816	224	150	20	1680	256	16	3	18	\$39.95
PB-8818	240	195	2	2420	384	20	4	27	\$57.50
PB-8820	264	240	21	3260	512	28	4	36	\$69.95
Conne	cted ** C	Capacity	··· Pins	450			سکات	F	F





## Blank Fibreglass PCB

Single sided copp	er clad, for making y	our own PCB's.
Cat. HP-9514	150 x 75mm	\$1.95
Cat. HP-9512	150 x 150mm	\$3.75
Cat. HP-9510	300 x 300mm	\$9.95

## **Doublesided Blank** Fibreglass PCB

Cat. HP-9519 150 x 150mm \$ 4.95 Cat Up.0520 300 x 300mm \$14.95



## Universal Pre-Punched **Experimenters Boards**

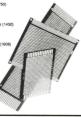
We now stock 3 sizes of Phenolic board that has a matrix of punched holes on a 0.1" (2.5mm) pitch with a 'donut' of tin plated copper around each hole. Each donut is separated from its neighbours by about a 0.5mm gap. This effectively isolates each pad but also makes it easy to brilge solder across to make interconnections. Each board also has 'lingen' on opposite ends. These can be used to connect to and from the board or to a card edge connector. Finally the non-solder side of the board has an alpha-numeric grid printed on it to assist in component identification 3 SIZES

SMALL 95 x 72mm, 25 x 30 holes (750) 3.6mm edge pitch

\$2,45 Cat HP-0550 MEDIUM 140 x 95mm, 29 x 50 holes (1450) 2.5mm edge pitcl

\$3.95 Cat. HP-9552 LARGE 210 x 78mm, 24 x 67 holes (1608 3.6mm edge pitch \$4.50

Cat. HP-9554



## **Boards Vero Type Strip**

Cat. HP-9540 \$2.25 95 x 76mm \$3.50 Cat. HP-9542 95 x 152mm Cat. HP-9544 \$6.50 95 x 303mm

## Plug-in PC Board

60 x 100 x 2.5mm spacing. Silver plate One of the handlest boards of all - build up professional modules on this plug-in

\$2.25



## Blank Phenolic PCB

Single sided coppe	r clad,	for making	PCB boards
Cat. HP-9506	150	x 75mm	\$1.65
Cat. HP-9507	150	x 150mm	\$2.50
Cat. HP-9508	300	x 300mm	\$6.95

Thin Double Sided

## Copper Clad Blank PCB

The copper (double sided) is the same thickness as normal PCB. It is ideal for applications where weight is important i.e. model aircraft, cars, wireless micropholect. It is also good for RF work as the ground plane effect is greater (because the sides are closer together). It is also fairly flexible. It is available as double sided only. If you want single sided etch one side off,

2 SIZES 3" x 6" (75 x 150mm) 6" x 6" (150 x 150mm)

\$2.25 Cat. HP-9522

\$3.95 Cat. HP-9523

### 3mm Nuts, Screws & Washers

OUI	CAAO	U I	1431	1010
Bolts are	round head			
Cat. No	Size	Pkt Qty	1-9	10+
HP-0400	6mm	pk 25	\$ .95	\$ .85
HP-0401	6mm	pk 200	\$2.50	\$2.30
HP-0403	10mm	pk 25	\$ .95	\$ .85
HP-0404	10mm	pk 200	\$3.35	\$3.15
HP-0406	15mm	pk 25	\$ .95	\$ .85
HP-0407	15mm	pk 200	\$3.95	\$3.75
HP-0410	20mm	pk 25	\$1.20	\$1.10
HP-0411	20mm	pk 200	\$4.95	\$4.65
HP-0414	25mm	pk 25	\$1.25	\$1.10
HP-0415	25mm	pk 200	\$5.95	\$5.60
HP-0418	32mm	pk 25	\$1.50	\$1.30
HP-0419	32mm	pk 200	\$7.50	\$7.10
HP-0425	nuts	pk 25	\$1.25	\$1.10
HP-0426	nuts	pk 200	\$4.25	\$4.00
HP-0430	washers	pk 25	\$ .95	\$ .85
	flat			
HP-0431	washers	pk 200	\$3.50	\$3.25
	flat			
HP-0433	washer	pk 25	\$1.25	\$1.15
	shakepro			
HP-0434	washer	pk 200	\$3.95	\$3.70
	shakepro	of n		
			-	_





## 4mm Nuts, Screws <u>& Washers</u>

Bolts are roundhead and the nuts steel.							
Cat. No	Size	Type	Pkt Qty	1-9	10+		
HP-0450	10mm	R/H bolt	pk 25	\$1.25			
HP-0451	10mm	R/H bolt	pk 200	\$3.95	\$3,70		
HP-0453	15mm	R/H bolt	pk25	\$1.25	\$1.10		
HP-0454	15mm	R/H bolt	pk 200	\$5.50	\$5.20		
HP-0462	Hex	Nuts	pk 25	\$1.25	\$1.10		
HP-0463	Hex	Nuts	pk 200	\$4.95	\$4.60		
HP-0465	Flat	Washer	pk 25	\$ .95	\$ .85		
HP-0466	Flat	Washer	pk 200	\$4.50	\$4.20		
HP-0468	S/prf	Washer	pk 25	\$1.25	\$1.10		
HP-0469	S/prf	Washer	pk 200	\$4.95	\$4.65		
Cat. No	Length	Туре	Qty	1-9	10+		
HP-0500	10mm	posidrive	10	\$1.50	\$1.30		
HP-0504	12mm	capscrew	10	\$3.25	\$3.00		
HP-0508	12mm	cheesehear	1 20	\$2.50	\$2.35		





## 8BA Machine Screws & Nuts

Cat. No Length Pixt Cty Price HP-0200 12mm screw 10 \$1.50 HP-0220 Brass nut 25 \$1.50

## Self Tapping Screws

ted steel.			
Type	Qtv	1-9	10+
No 4 x 6mm	25	\$1.00	90¢
No 4 x 6mm	10	\$ .50	45¢
No 4 x 6mm	500	\$5.95	\$5.50
No 4 x 12mm	25	\$1.20	\$1.10
No 4 x 12mm	500	\$5.95	\$5.60
No 8 x 12mm	25	\$1.20	\$1,10
No 8 x 19mm	20	\$1.25	\$1,15
(Black)			
	Type No 4 x 6mm No 4 x 6mm No 4 x 6mm No 4 x 12mm No 4 x 12mm No 8 x 12mm No 8 x 19mm	Type Oty No 4 x 6mm 25 No 4 x 6mm 10 No 4 x 6mm 500 No 4 x 12mm 25 No 4 x 12mm 500 No 8 x 12mm 25 No 8 x 19mm 20	Type Oty 1-9 No 4 x 6mm 10 \$.50 No 4 x 6mm 500 \$5.96 No 4 x 12mm 500 \$5.96 No 8 x 12mm 25 \$1.20 No 8 x 12mm 25 \$1.20 No 8 x 12mm 25 \$1.20

## **6BA Screws**

Cat. No	Type	Qty	1-9	10+
HP-0255	6BA x 1/2" C/Su	25	\$1.95	\$1.7
HP-0257	6BA x 3/4" Cheese	25	\$1.95	\$1.7
HP-0254	6BA x 1/2" Cheese	25	\$1.95	\$1.7
HP-0280	6BA nuts	25	\$1.25	\$1.1
HP-0290	6BA flatwasher	50	\$1,25	\$1.1
HP-0295	6BA shakenroof	50	\$1.25	\$1.1

## Spacers

Untapped. Clearance 4BA or 1/6" ww.

Cat. No. Length City 1.9 [0]

HP-0809 6"m 8 \$ 1.20 \$1.10

HP-0807 6"m 500 \$3.55

HP-0802 8"m 8 \$ 1.30 \$1.20

HP-0808 2"m 8 \$ 1.30 \$1.20

HP-0808 2"m 6 \$ 1.50 \$1.40

HP-0808 2"m 5 \$1.50

## **Nylon PCB Spacers**

Superb range of spacers. Fixing is by size 6 or 8 self tapping screws. The flat centre sect gripped to prevent rotation while fixing Cat. No Length Oty 6mm 12mm HP-0980 5 \$1.00 HP-0982 6 \$1.00 HP-0984 19mm HP-0986 25mm \$1.20 HP-0988 32mm \$1.40 \$1.50

## 3mm Tapped Metal Spacers

ı	Cat. No	Length	Qty	1-9	10+
ı	HP-0900	10mm	8	\$ 1.65	\$ 1.50
ı	HP-0901	10mm	100	\$10.50	\$10.00
	HP-0904	15mm	8	\$ 1.85	\$ 1.65
	HP-0905	15mm	100	\$12.95	\$12,50
	HP-0907	25mm	8	\$ 2.75	\$ 2.50
	HP-0908	25mm	100	\$22.50	\$21.50
			_		-



## Nylon PCB

Standoff
Saves using nuts, bolts and space Size 9mm (1/4\*)
Pack of 8

Size 9mm (1/4")
Pack of 8
Cat.No. Pkt Oty Price
HP-0770 8 \$1.25
HP-0772 100 \$9.95

## Cable Clips

A must for your next cable installation

Cat. No UP.1170 Figure 8 cable Telephone cable 50 \$4.50 84.25 HP-1172 50 \$4.25 \$4.00 UD-1174 Coaxial cable 50 \$4.50 84.25 \$2.70 HP-1176 \$2.85 7- 9mm cable 30 HP-1178 10-12mm cable \$2.60 \$2.50



## **Cable Clamps**

Used for securing cable to chastle. Cat. No. Sitze Pfs HP-0725 For Smm cable 6 \$1.00 90c HP-0756 For form cable 6 \$1.00 90c HP-0756 For form cable 6 \$1.00 90c

## Cable Ties

Great for teeping those wing sooms together.
Cat. No. Length PHt 1-9 10-4
HP-1200 100mm 120 \$1.20 \$1.10
HP-1201 150mm 15 \$1.75
HP-1202 200mm 15 \$1.95
\$1.95



## Cordgrip Clamps

Cat. HP-0718

for cables to 9mm dia. (3 wire mains) \$1.25 10+ \$1.15 for figure '8' cables \$1.00 10+ 90c



## Rubber Grommets

Cat. No Size Pit 1-9 10+ HP-0702 8mm hole 8 \$1.50 \$1.40 HP-0704 9mm hole 8 \$2.00 \$1.80



## **Rubber Feet**

Cat. No Qty 8 1-9 10+ \$ 1.95 \$1.75 HP-0800 Screw on HP-0810 12mm stick on 100 \$18.95 4 \$ 1.50 100 \$19.95 \$17.95 HP-0815 12mm stick on \$1.35 HP-0820 20mm stick on \$18.95 UP-0825 20mm etick on 4 \$ 1.75 \$1.60 HP-0830 Large plastic feet \$ .70 75€



## Solder Lugs

A pack of 50 assorted solder lugs for any screw down connection.

PACK OF 50 \$1.50

## 2mm Screws

2mm diameter, 8mm long cheesehead screw for securing slider pots and most slider switches Cat. HP-0390
PACK OF 4 49¢

**GORE HILL 439 4799** 

## Speaker/Equipment Cabinet Fittings

Jaycar has expanded its range of hardware to include road cabinets, speaker and other equipment enclosure

## **Heavy Duty Strap Handles**

\$7.95 ea

Overall length 250mm. Will lift a maximum weight of 50 kgsl ideal for speakers. amps, etc. Made in England. Cat. HS-8020



\$4.95 ea 10 or more \$4.50 each



## **Plastic** Locking Corner Piece

Heavy duty plastic moulded corner fitting featuring male/female inserts.
These are designed to fit together so that pieces of equipment (the same

size) can be stacked up and locked together. Ideal for stacking speaker

10 or more \$3.50 each



## Cabinet

Handle If you are having trouble lifting speaker cabinets, or PA bins, or any large box, try these handles. They are easy to fix. Just

drill holes and screw in. Cat. HS-8010 \$16.50 ea

10 or more \$16.00 each

## **PCB Mount** Screw Terminal

Ideal for those situations where wires leave a PCB. Just solder the terminal strip to the PCB and connect wires. Will interlock with each other to make longer connectors. For example, if you need an 8 way, simply use 2 x3 way and 1 x2 way. Cat. No Type

1.9 HM-3172 2 WAY \$1.10 HM-3173 3 WAY \$1.40 \$1.00



\$1.60 ea 10 or more \$1.40 each

12 way moulded terminal strip for ma 12 way moulded terminal surp in mass consumers.

Cat. HM-3200

### **Castors**

Four castors to suit large speaker boxes or anything for that matter. Drill a 1/4" hole and self tap into

Cat HP-0835 Note: Castor is actually a Shephard (ball) style not exactly like that shown

\$5 pkt of 4



## Plastic Fool

Moulded in tough yet resilient plastic Enables you to slide heavy equipment across most floors without damaging the floor, 37mm diameter, one screw fitting. Cat. HP-0830

85¢ ea 10 or more 75¢ each

## 6.5mm Socket Mounting Cup

Ever tried to mount a 6.5mm socket in a wooden box? It was impossible Now it's easy with our unique bracket

\$1.20 10 or more \$1.00 each

## **Pocket** Handle

Suitable for chipboard speaker cabinets or metal enclosures. Made in England, Panel cutout 102 x 48mm Cat. HS-8012

\$2.95 ea 10 or more \$2.50 each



## Corner Bracket Metal

Keep the corners of your PA bins or party speakers undamaged. Just screw these on to your speakers, and start throwing them aroundl Cat. HM-3822

\$2.50 10 or more \$2.25 each



## Dial Drums

Great for experimenters and radio replacements. These quality dial drums are made of Delron plastic with a brass bush insert and 2 an becrews to retain on shaft. Sizes range from 40mm to

108mm dia Cat. HM-3127 40mm dia Cat. HM-3125 54.1mm dia \$1.50 \$1.50 Cat. UN-2126 57 3mm dia Cat. HM-3124 79.5mm dia Cat. HM-3122 108.3mm dia DIAL SPRINGS FOR ABOVE Cat. HM-3090 for small drums25¢ Cat. HM-3091 for large drums 25¢

Dial Cord 2.5 metre

quality nylon cord to get that radio going again, Don't spend money on expensive cord that you'll neve use half ofi This pack has more than enough to

repair any radio we've ever see Cat. HP-1400 \$1.75

Tagstrips

HM-3305



## Perspex

nex 150mm x 100mm x 3mm thick. Many uses Cat. HK-3110 \$2.95

> **TURN YOUR** SURPLUS STOCK INTO CASH!! Jaycar will purchase your surplus

stocks of components and equipment. We are continually on the lookout for sources of prime quality merchandise.

CALL GARY JOHNSTON OR BRUCE **ROUTLEY NOW** ON (02) 747 2022

CARLINGFORD 872 4444





35¢ ea

Cat. PP-0100 10+ 30¢ ea 2.5mm Socket

50¢ ea

Cat. PS-0105 10+ 45¢ ea 3.5mm Miniature Plug - Black



3.5mm Open Socket

55¢ ea Cat. PS-0120 10+ 50¢ ea 3.5mm Enclosed



Cat. PS-0122 10+ 55¢ ea 3.5mm Mono Panel Insulated Socket



75¢ ea. Cat. PS-0123 10+ 65¢ ea 3.5mm Line Socket



Red Cat. PS-0126 65¢ ea 10+60¢ ea 3.5mm Stereo Plug

Black

Cat. PP-0130 \$1.40 ea 10+ \$1.30 ea





10+ \$1.30 ea

3.5mm Stereo Line \$1.60 ea

Cat. PS-0134 10+ \$1.50 ea 6.5mm Mono Phone Line Plug - Black

\$1.10 ea Cat. PP-0150 10+ \$1.00 ea 6.5mm Mono Metal

Plug

\$2.00 ea Cat. PP-0154 10+ \$1.85 ea 6.5mm Mono Chassis Socket Open switch type (close

when plug is not inserted? \$1.40 ea

Cat. PS-0160 10+ \$1.30 ea 6.5mm Mono Plastic Line Socket

\$1.20 ea Cat. PS-0166 10+ \$1.10 es 6.5mm Stereo Plastic Plug 441

\$1.25 ea Cat. PP-0170 10+ \$1.15 ea 6.5mm Stereo Metal Plug

34 \$2.20 ea Cat. PP-0174 10+ \$2.00 ea 6.5mm Stereo Right Angle Plug

\$1.65 ea

Cat. PP-0176 10+ \$1.50 ea 6.5mm Stereo PCB Mount Socket



Cat. PS-0180 \$2.20 ea 10+\$2.00 ea 6.5mm Stereo Enclosed Insulated Switched DPDT Socket



Cat. PS-0182 10+ \$1.35 ea 6.5mm Stereo Enclosed Insulated Switched Socket

\$2.25 ea

Cat. PS-0184 10+ \$2,00 ea 6.5mm Stereo Open Chassis Socket Switched

\$2.25 ea Cat. PS-0186 10+ \$2.05 ea 6.5mm Stereo insulated DPST Switched Socket



\$1.95 ea Cat. PS-0190 10+ \$1.75 ea 6.5mm Stereo Line Socket Plastic



\$2.25 ea Cat. PS-0196 10+ \$2,10 ea

Plugs - Plastic Red Cat. PP-0240

Black Cat. PP-0242 55¢ ea 10+ 50¢ ea Yellow Cat. PP-0243 White Cat. PP-0244 70¢ ea

10+ 65¢ ea Metal Plug

\$1.50 ea Cat. PP-0245 10+ \$1.40 ea



\$1.95 ea Cat. PP-0246 10+ \$1.65 ea

Gold Plug

\$2.50 ea Cat. PP-0248 10+ \$2.00 ea Plastic Line Socket Red Cat PS-0250

Black Cat. PS-0252 50¢ ea 10+ 45¢ ea Metal Line Socket



\$1.00 ea Cat. PS-0254 10+ 90¢ ea Metal Chassis Socket





\$1.99 62 Cat. PS-0258 10+ \$1.69 ea

**PCB Right Angle** Socket Mount



\$1.50 ea Cat. PS-0259 10+ \$1.40 ea Single Phenolic Socket



Cat. PS-0262 10+ 30¢ ea



Cat. PS-0263 10+ 70¢ ea 4 Way Phenolic Socket Cat. PS-0265 (Not illustrated) \$1.50 ea 10+ \$1.35 ea 6 Way Phenolic Socket Cat. PS-0267 (Not illustrated) \$2.25 ea 10+ \$2.00 ea 6 Way PCB Mount

Cat. PS-0290 \$3.49 ea 10+\$2.99 ea

DIN 8 Pin DIN Micro Plug



2 Pin DIN Plug

75¢ ea Cat. PP-0300 10+ 70¢ ea 3 Pin Line Plug

Cat. PP-0302 \$1.20 ea 10+\$1.10 ea

5 Pin Line Plug 100000

Cat. PP-0304

\$1.20 ea 10+ \$1.10 ea



\$1.65 ea 10+ \$1.50 ea

6 Pin Line Plug Cat. PP-0308

\$1.65 ea 10+ \$1.50 ea 7 Pin Line Plug

Cat PP-0310 \$1.65 ea 10+ \$1.50 ea

8 Pin Line Plug פונונונו Cat. PP-0312

\$1.95 ea 10+ \$1.80 ea

2 Pin Panel Socket

45¢ ea Cat. PS-0340 10+ 40¢ ea

2 Pin Line Socket 55¢ ea

Cat. PS-0342 10+ 50\$ ea 3 Pin Chassis Socket

CM DD 0246 \$1.40 ea

10+ \$1.30 ea 3 Pin Line Socket

THE PARTY OF \$1.00 ea

Cat. PS-0347 10+ 90\$ ea 5 Pin Panel Socket



\$1.40 ea 10+ \$1.30 ea

Cat. PS-0348

5 Pin Right Angle Banana PCB Mount Socket 4mm Plugs



Cat. PS-0350 \$1.65 ea 10+\$1.50 ea 5 Pin Line Socket

מבונולוו Cat. PS-0352 \$1.65 ea 10+ \$1.50 ea

Cat. PS-0354

\$1.65 ea

Cat PS-0355

\$1.85 ea 10+ \$1.70 ea

Cat. PS-0357

\$1.85 ea

Cat. PS-0356

\$1.85 ea

Cat. PS-0358

\$1.95 ea

Cat. PS-0359

\$2.20 ea

10+\$2.00 ea

10+\$1.80 ea

8 Pin Chassis Socket

10+ \$1.70 ea

8 Pin Line Socket

10+ \$1.70 ea

7 Pin Line Socket

10+ \$1.50 ea

6 Pin Line Socket

7 Pin Chassis Socket

65¢ ea 10+ 60¢ ea 6 Pin Panel Socket 2mm Plug for

Multimeters Red Cat. PP-0412

Cat. PP-0400

Black Cat. PP-0402

4mm Panel Mount

Black Cat. PS-0408

65¢ ea

Sockets

Red Cat PS-0406

10+ 60¢ ea

Black Cat. PP-0414 90¢ ea 10+ 85¢ ea

2mm Test Probe for Multimeters

Cat. PP-0422 Black Cat. PP-0424 \$1.25 ea 10+\$1.10 ea

4mm Binding Posts os a Ban

Red Cat. PT-0443 Black Cat. PT-0444

80¢ ea 10+ 70¢ ea Deluxe Binding

Posts we a hanana sockat Alable in a range of colours



Blue Cat. PT-0450 Yellow Cat, PT-0451 White Cat. PT-0452 Red Cat. PT-0453 Black Cat PT-0454 Green Cal. PT-0455 \$1.40 ea 10+\$1.25 ea

"Quality" Range of Banana Plugs Piggy back style. A multimeter probe can be inserted into the back of the



Cat. PT-0390 Red Black Cat. PT-0391 \$1.95 ea 10+\$1.75 ea

"Quality" Range of Banana Plugs Flexible Type

Red Cat. PP-0394 Black Cat. PP-0395 95¢ ea

10+85¢ ea DC Power 2.1mm Line Plug

Cat. PP-0510

60¢ ea 10+ 55¢ ea 2.5mm Line Plug

Cat. PP-0512 60¢ ea 10+ 55¢ ea 2.1mm Chassis Socket Cat. PS-0516 90¢ ea (o 10+80¢ ea 2.5mm Chassis Socket Cat. PS-0518 90¢ ea

10+80¢ ea

2.1mm Bulkhead Socket

Cat. PS-0522

\$2.25 ea 10+ \$2.00 ea 2.5mm Bulkhead Socket Cat PS-0524 (same pic as PS-0522)

\$2.25 ea 10+ \$2.00 ea

DC Plug Adaptors 2.1mm DC Socket to

1.3mm DC plug Cat. PA-3670

\$2.20 ea 10+ \$2.00 ea 2.5mm DC Socket to 1.3mm DC plug

Cat. PA-3672 \$2.20 ea 10+\$2.00 ea

Coax 75 Ohm Plastic Line

Plug

Cat. PP-0600 \$1.20 ea

10+\$1.00 ea 75 Ohm Metal Line Plua

Cat. PP-0602 \$2.20 ea 10+\$2.00 ea

75 Ohm Solderless Plug



\$2.20 ea 10+ \$2.00 ea 75 Ohm Line



Cat. PS-0610 \$1.20 ea 10+ \$1.00 ea 75 Ohm Metal Line



Cat. PS-0614 \$2.20 ea 10+ \$2.00 ea

75 Ohm Plastic Chassis Socket



Cat. PS-0616 \$1.10 ea 10+ \$1.00 ea

75 Ohm Quality Metal Chassis Mount



Cat. PS-0628 \$2.25 ea 10+ \$2.00 ea Joiner Female to Female



Cat PS-0620 \$1.75 ea 10+\$1.60 ea Joiner Male to Male



Cat. PS-0622 \$1.75 ea 10+\$1.60 ea Coax Cable Joiner Hardwired for 75 & 50 ohm



Cat. PS-0618 \$1.50 ea 10+ \$1.30 ea Connectors Coax Plug



Cat. PP-0640 \$1.20 ea

10+ \$1.08 ea Coax Socket

Cer PS-0649 \$1.40 ea 10+ \$1.20 ea 300 Ohm T۷

Plug Cat. PP-0630

\$1.85 ea 10+ \$1.75 ea Plug and Wall Socket



Cat PP-0632 \$3.95 ea 10+ \$3.70 ea

Male Line Plug

Cat. PP-0650 \$2.80 ea 10+ \$2.50 ea Male Line Plug

Screw terminating

\$3.50 ea 10+ \$3.25 ea Male Line Plug

Cat. PP-0652

Solderless 'Twist On'

Cat. PP-0653 \$3.50 ea 10+\$3.25 ea Panel Socket Square



\$2.75 ea 10+ \$2.50 ea Panel Socket Single Hole Mount

Cat. PS-0656



\$2.50 ea 10+ \$2.25 ea Gold Plated Type (as PS-0658)



\$4.50 ea 10+ \$4.00 ea BNC Insulated Washers Packet of 4 insulating washers for PS-0658 Cat. HP-1220 \$2.00 per pkt

10+ \$1.80 pkt BNC T Adaptor 1 Female to 2 Female



Cat. PA-3660 \$7.95 ea 10+ \$7.50 ea BNC T Adaptor 1 Male to 2 Female





10+ \$7.50 ea

Double Female Panel Mount



Cat. PS-0662 \$4.50 ea 10+\$4.20 ea **BNC Male to Double** 

Binding Posts/ **Banana Sockets** 



\$9.95 ea 10+\$9.50 ea BNC Female to Double Banana



Cat PA-3868 \$8.50 ea 10+ \$8.00 ea

winax Twin Coax Male Plug



Cat. PP-0682

Twin Coax Chassis

(As used on IBM & other computers)

Socket

Cat. PS-0672

\$11.95 ea

PL259 Plug

for RG58 coax

Cat. PP-0680 \$2.95 ea

10+ \$2.75 ea

PL259 Plug

10+ \$10.95 ea





Cat. PP-0684 70¢ ea 10+ 60¢ ea PL259 Solderless Plug



\$3.50 ea 10+\$3.00 ea



MELBOURNE - CITY 03 663 2030

SO 239 Panel Socket Square Mount 6



\$1.90 ea 10+ \$1.85 ea Round, Single Hole Mount







10+\$2,30 ea

## Subminiature

Male Solder Connectors



Cat PP-0800 \$2.25 ea 10+ \$2.00 ea



\$2.50 ea 10+ \$2.25 ea 25 Pin



Cat. PP-0840 \$2.95 ea 10+ \$2.75 ea



\$7.95 ea 10+ \$7.25 ea Female Solder Connectors

25 Pin 90° Male

Cat. PP-0841

\$5.75 ea

10+ \$5.25 ea

Right Angle

Terminals

Not illustrated Cat. PP-0812

\$3.95 ea

Cat. PS-0826

\$3.50 ea

Cat. PS-0845

\$6.95 ea

Cat. PS-0866

Male

9 Pin Male

\$11.95 ea

10+ \$10.95 ea

Insulation

Displacement

10+\$6.50 ea

37 Pin 90° Female

10+\$3.25 ea

10+\$3.25 ea

15 Pin 90° Female

25 Pin 90° Female

Female - PCB

Mount Solder

9 Pin 90° Female



Cat. PS-0804 \$2.75 ea 10+ \$2.50 ea

15 Pin



Cat PS-0824 \$2.75 ea 10+ \$2.50 ea

25 Pin

Cat. PS-0844

\$3.50 ea 10+\$3,20 ea 37 Pin

Cat. PS-0864 \$10.95 ea 10+ \$9.95 ea

Right Angle Male - PCB Mount

Solder Terminals 9 Pin 90° Male Cat. PP-0810

\$3.45 ea 10+ \$2..95 ea 15 Pin 90° Male

Cat. PP-0802

Cat. PP-0822

\$4.25 ea

10+ \$3.95 ea



Cat. PP-0842

25 Pin Male

\$8.50 ea 10+\$8.00 ea Insulation Displacement Female 9 Pin Female

Cat. PS-0805 \$8.95 ea 10+\$8,20 ea

15 Pin Female Not illustrated Cat. PS-0825 \$10.95 ea 10+ \$10.25 ea 25 Pin Female



\$9.00 ea 10+ \$8.50 ea Backshells 9 Pin Not illustrated Cat. PM-0808 \$1.90 ea

10+\$1.80 ea 15 Pin



Cat. PM-0828 \$2.00 ea 10+\$1.80 ea 25 Pin



\$2.00 ea 10+ \$1.80 ea Hi Quality Chromed 25 Pin with Finger Grip Screws



Cat. PM-0850 \$3.50 ea 10+\$3,25 ea

37 Pin Not Illustrated Cat. PM-0868 \$4.95 ea 10+ \$4.50 ea

> Wall Plates White plate with one 25D



\$1.89 ea 10+\$1.79 ea With 2 Cutouts



Cat. PM-0858 \$2.29 ea 10+\$2.19 ea

Centronics Solder Line Plug



10+\$7.00 ea

Displacement Line Plug



\$8.50 ea 10+\$8.00 ea Panel Line Solder



Cat. PS-0895 \$9.95 ea 10+ \$9 50 ea Insulation



Cat. PS-0896 \$12.50 ea 10+ \$11.50 ea Amphenol Series 57 Micro Ribbon Chassis Sockets 14 Way



Cat PS.nons \$3.00 ea 10+ \$2.50 ea

## Connectors

IDC Header with Relief Strain



Cat. PP-0945 \$4.25 ea 10+\$3.85 ea 26 Way Cat. PP-0947 \$5.50 ea 10+ \$5.00 ea

34 Way Cat. PP-0948 \$5.50 ea 10+ \$5.00 ea

50 Way Cat. PP-0950 \$6.95 ea 10+ \$6.50 ea IDC Header Right Angle with Strain



16 Way Cat. PP-0965 \$4 25 68 10+\$3.85 ea 26 Way Cat. PP-0967

\$4.95 ea 10+ \$4.50 ea 34 Way Cat. PP-0968

\$6.25 ea 10+\$6.00 ea 50 Wav Cat. PP-0970

\$10.95 10+\$10.50

IDC Line Socket 14 Way Cat. PS-0983 \$2.00 16 Way Cat. PS-0985 \$4.75 68

10+ \$4.55 ea

26 Way Cat. PS-0987 \$5.25 ea 10+ \$5.00 ea

34 Way Cat. PS-0988 \$5.75 ea

10+ \$5.50 ea 50 Way Cat. PS-0990 \$7.50 ea 10+ \$7.00 ea

Economy IDC Right Angle Connector



16 Way Cat. PP-0992 \$3.50 ea 10+\$3.25 ea

26 Way Cat. PP-0993 \$3.25 ea 10+ \$3 10 00 34 Way

Cat. PP-0994 \$5.50 ea 10+\$5,20 ea 50 Way Cat. PP-0996 \$7.95 ea

10+ \$7.50 ea **IDC** Edge Connector For Connecting

to PCB's and Disc Drives 34 Wav



Cat PL6560 \$9.50 ea 10+\$8.50 ea



4 Pin Disc Drive Plug Insulation Displacement type with positive locking cover



Cat. PP-0920 \$6.50 ea 10+ \$6.00 es

Scart Plug 21 Pins

Cat DD 0010 \$4.75 ea

Computer Leads



\$32.95 25 Way "D" Female to Male - 1.8 metre Cat PLicese

\$30.95 25 Way "D" Male to Centronics Plug - 1.8 metre



\$28.95

Cannon

XLP/AXR Type 3 Pin Line Male



3 Pin Line Female

Cat. PS-1032 \$5.50 ea 10+ \$5.20 ea 3 Pin Chassis Male



\$4.25 ea 10+ \$4.00 ea 3 Pin Chassis Female (Socket)



10+\$5.75 ea 3 Pin Plastic Chassis Male



Cat. PP-1016 \$3.95 ea 10+\$3.70 ea 3 Pin Plastic Chassis Female



Cat. PS-1018 \$3.95 ea 10+\$3.70 ea 5 Pin Line Male

Cat. PP-1052

\$8.95 ea 10+\$8.25 ea 5 Pin Line Female



10+ \$13.00 ea

5 Pin Chassis Male (Plug)



\$7.95 ea 10+ \$7.50 ea

5 Pin Chassis Female (Socket)



Cat. PS-1056 \$13.95 68 10+ \$13.00 ea 240V (5A) Chassis Male Recessed pins - inside tube



\$8.95 ea 10+ \$8.50 ea 240V (5A) Female Recessed pins in hole - to suit above product Type AXL-LNE 11C Not illustrated Cat. PS-1002 \$9.95 ea

10+ \$9.00 ea Telephone

Telecom Type Plug



Cat PP-1400 \$3.95 ea 10+ \$3.50 ea Telecom Type Socket



Cat PS-1410 \$4.50 ea 10+ \$4.25 ea

2 Pin McMurdo Speaker Type Plug (polarised)



Cat. PP-1200 95¢ ea 10+85¢ ea Socket Panel Mount



Cat PS-1202 65¢ ea 10+ 60¢ ea

Utilux Moulded Nylon Line Plug & Socket included in the assembly along with pins of both sex.

2 Pin Plug/Socket Assembly Cat. PP-2020 \$1.95 ea 10+ \$1.85 ea

3 Pin Plug/Socket Assembly Cat PP-2022 \$2.50 ea 10± \$2.30 ea



Cat. PP-2024

\$3.20 ea

10+\$3.00 ea

\$1.20 ea 10+ \$1.10 ea

12 Pin Plug/Socket Assembly Cat PP-2026

\$4.50 ea 10+ \$4.25 ea Microphone Line Socket 4 Pin

Cat. PS-2012 \$3.95 ea 10+\$3,50 ea

Microphone Panel



Cat. PP-2010 \$3.50 ea 10+ \$3.25 ea Octoplus 8 Pin Plug



\$3.95 ea 10+\$3,70 ea Octoplus Chassis Socket



\$3.95 ea 10+ \$3.70 ea Cigarette Lighter Plug

Simply plugs into the car cigar/ cigarette lighter socket to obtain 12V DC from the car



Cat PP-2000

Cigarette Lighter Plug - Fused As PP 2000 but with the added safety benefit of being fused



10+ \$2,70 ea Cigarette Lighter Chassis Socket



Cat. PS-2002 \$6.95 ea 10+ \$6.50 ea Cigarette Lighter Inline Socket



Cat. PS-2003 \$2.20 ea 10+ \$2.00 ea Car Badio Antenna Plua



10+ 85¢ ea Car Radio Socket Chassis Mount



Cat. PS-2042 95¢ ea 10+85¢ ea

3 Pin Plug & Socket suited for low voltage and speakers

Pin Plug and Chassis Socket



\$1.50 ea 10+ \$1.35 ea

3 Pin Line Plug and Socket



\$1.50 ea 10+ \$1.35 ea Speaker

Terminals 2 Way Push Connection



4 Way Push Connection



Cet PT-3002 \$2.60 ea 10+ \$2.40 ea Large Round Speaker Terminal



\$2.50 ea 10+\$2.25 ea 2 Way Screw Down Speaker Terminals

Cat PT-2009 \$1.00 ea 10+ 80¢ ea

PCB Mount Safety Speaker Connectors



Cat. PT-3010 \$3.95 ea 10+\$3.65 ea Screw Terminals on Phenolic 2 Way

40¢ ea 10+ 35¢ ea 4 Way

-00000

Cat. PT-3042 65¢ ea 10+ 55¢ ea

Mains Connectors

240V Line Plug



\$1.95 ea 10+ \$1.75 ea

240V Piggy Back Plua



\$3.95 ea 10+\$3.65 ea





Cat. PP-4005 \$2.95 ea 10+ \$2.45 ea IEC Male Chassis Socket with Fuse

\$5.95 ea 10+ \$5.50 ea IEC320 240V Female



Cat. PS-4006 \$3.75 ea 10+\$3.50 ea 240V Mains Line

Socket

Cat Do 4000 \$4.20 ea 10+\$4.00 ea Double Adaptor

Cat. PP-4032 \$3.75 ea 10+ \$3 60 es

BB Connector Used to connect mains wiring inside junction boxes, etc.

Cat. PP-4080

20¢ ea 10+18¢ ea Mains Surface Mount Socket



Cat. PS-4012 \$3.95 ea 10+\$3.50 ea

## **IEC Power** Leads

IEC320 style plugs, socke cord etc. Jaycar stocks a range of EA approved mains line cords. We have them in straight entry, left and right entry with and without standard 240V mains moulded plug. Each cord is a generous metres long and is rated at
 7.5 amps continuous. They are
only available in grey.

Line Cord Straight Entry Cat. PS-4100 \$5.95 ea 10+ \$5.50 ea Line Cord Right

Hand Entry Cat. PS-4102 \$5.95 ea 10+\$5.50 ea Line Cord Left Hand

Entry Cat. PS-4104 \$5,95 ea 10+ \$5,50 ea

Line Cord Straight Entry with 240V Plug Cat. PS-4106 \$7.95 ea 10+ \$7.50 ea



## Power

Leads 3 Pin AC Plug with 2 metres 3 core cable to





Cat. PS-4110 \$3.50 ea 10+\$3.25 ea Cassette Power l ande

all 2 metres long Type 1 Cat PS-4115 Type 2

Cat. PS-4116 Type 3 Cat PS-4117 

Type 4 Cat. PS-4118 

ALL \$5.95 ea Quick

Connect Female Spade Lug

Cot PT-4503

\$1,25 pkt 8 10+\$1.10 Male Spade Lug



Cat. PT-4509 \$1,25 pkt 8 10+ \$1 10 Spade Lug Adaptor



Cat. PT-4512 \$1.25 pkt 6 10+ \$1.15 Eye Terminal



Cat. PT-4514 \$1.25 pkt 8 10+\$1.15

Mini Female Spade Lua



Cat. PT-4520 \$1.65 pkt 15 10+\$1.50

Forked Spade



Cat. PT-4523 \$1.25 pkt 8 10+\$1.10 Large Forked Spade

Cat. PT-4524 \$1,25 pkt 8

10+ \$1.10 Bullet Connector Male Insulated



\$2.50 pkt 10 10+ \$2.25 Bullet Connector Female Insulated



\$2.50 pkt 10 10+ \$2.25 Forked Spade Deluxe Quality solder type (open elet) screw on plastic body heavy guage plated



Black Cat. PT-4610 40¢ ea 10+35¢ ea Eye Terminal

Cat. PT-4516 \$1.00 pkt 20

Slotted Terminal TIII .



\$1,20 pkt 20 "Molex" Pins

Make your own IC (or other) sockets to any length! Will take up to 0.5mm diameter wire or pins. Simply insert and break



Cat. PI-6543 \$35.00 pkt 1000 Machine Pin IC Socket Strips What a great idea, if you are a serviceman or hobbyist yo

don't have to keep every size of IC socket handy, Just keep a few of these and snap them off to make any length. Quality machine pins



### 10+ \$3.00 IC Sockets

West German Production IC Sockets

Gold insert machined	nin anti-v	vicking, ver	v high g	uality, le	deal
professional/portable	or field se	rvice equip	ment.		
Cat. PI-6452	8 PIN	\$1.00 ea -	10+ 90€		
Cat. PI-6454	14 PIN	\$1.35 ea -	10+ \$1.3	25 ea	
Cat. PI-6456	16 PIN	\$1.50 ea -	10+ \$1.3	35 ea	
Cat. PI-6458	18 PIN	\$1.65 ea -	10+ \$1.	50 ea	
Cat. PI-6460	20 PIN	\$1,90 ea -	10+ \$1.	BO ea	
Cat. PI-6462	22 PIN	\$2.00 ea -	10+ \$1.	B5 ea	
	24 PIN	\$2,30 ea -	10+ \$2.	10 ea	
Cat. PI-6466	28 PIN	\$2.60 ea -	10+ \$2	40 ea	
Cat. PI-6468	40 PIN	\$3.25 ea -	10+ \$3,	00 ea	
ALL GOLD INSERT		D PIN	- 0	0.0	



Solder Tail		
Cat. PI-6500	8 PIN	20¢ ea - 10+ 18¢ ea
Cat. PI-6501	14 PIN	25¢ ea - 10+ 22¢ ea
Cat. PI-6502	16 PIN	28¢ ea - 10+ 25¢ ea
Cat. PI-6503	18 PIN	32¢ ea - 10+ 28¢ ea
Cat. PI-6504	20 PIN	48¢ ea - 10+ 44¢ ea
Cat. PI-6505	22 PIN	50¢ ea - 10+ 45¢ ea
Cat. PI-6506	24 PIN	50¢ ea - 10+ 45¢ ea
Cat. PI-6507	28 PIN	70¢ ea - 10+ 65¢ ea
Cat. PI-6508	40 PIN	70¢ ea - 10+ 65¢ ea
All tip plated Pho	sobor Bronzi	or Beryllium Copper.



### Header Plugs

"Header Plugs" will plug into a standard IC socket. They will allow nts into a circuit via the IC socket. you to solder compone

14 Pin Cat, PI-6524 \$2.50 ea 10+ \$2.20 ea 16 Pin Cat. PI-6525 \$2.50 ea 10+ \$2.40 ea 24 Pin Cat. PI-6526 \$3.95 ea 104 \$3.70 ea



ZIF (Zero Insertion Force) Sockets 24 Pin Cat. PI-6522 \$21.95 ea 10+ \$20.50 ea 28 Pin Cat. PI-6523

Cat PI-6496



## These high quality wire wrap sockets have machined pins. Now

	an have the	BES I SOCKBIS AL A FRASOFIADIO
price.		
Cat. PI-6491	8 PIN	\$1.75 ea - 10+ \$1.65 ea
Cat. PI-6492	14 PIN	\$2.65 ea - 10+ \$2.50 ea
Cat. PI-6493	16 PIN	\$3.25 ea - 10+ \$3.10 ea
Cat. PI-6494	18 PIN	\$3.40 ea - 10+ \$3.20 ea
Cat. PI-6495	20 PIN	\$3.50 ea - 10+ \$3.30 ea
Cat. PI-6496	22 PIN	\$3.85 ea - 10+ \$3.60 ea
Cat. PI-6497	24 PIN	\$4.40 ea - 10+ \$4.15 ea



\$4.95 ea - 10+ \$4.65 ea \$6.50 ea - 10+ \$6.20 ea

### Insulation Displacement Type Header Plugs

14 Way Gold Plated Cot DI 6540 \$1.95 ea

10+ \$1 75 69 16 Way Gold Plated

Cat PL6550 \$2.25 68 10+\$2.00 ea

24 Way Gold Plated Cat. Pl-6555 \$3.95 ea 10+\$3.70 ea

40 Way Cat. PI-6558 \$4.95 ea 10+\$4,60 ea ALL INCLUDE CAP



IC Sockets - Packs The economical way to buy quality tinned IC sockets 100 x 8 PIN Cat. PI-6478

\$15.50 100 x 14 PIN Cat. PI-6480

\$16.95

100 x 16 PIN Cat. PI-6482 \$19.95

100 x 18 PIN Cat. PI-64R4 \$23.95

Mixed Pack IC

Sockets

Consists of : 15 x 8 pin 20 x 14 pir 20 x 16 pir 10 x 18 pir 5 x 20 pir 10 x 22 pir 5 v 24 nin

5 x 28 pir 10 x 40 pinMore of the more Cat. PI-6490

(\$37.00 value \$24.95 pkt of 100



## **Battery** Holders -Snaps

Jaycar carries an excellent range of battery con line with our usual policy our products are higher quality than average but cost no more. The holders are moulded in Delryn with corrosive resistant nickel

plated springs and studs. AA. UN-3 or Penlight Cells

4 x AA Square



90¢ ea 10+80¢ ea 2 x AA Side By Side



10+90¢ ea 4 x AA Side By Side & Fnd To End



Cat. PH-9204 \$1.20 ea 10+\$1.00 ea 6 x AA 2 By 3 Side By Side



\$1.20 ea 10+ \$1.00 ea 8 x AA 2 Rows of 4 Square



\$1.50 ea 10+ \$1.30 ea C or UM-2 Cells 1 x C Cell



Cat PH-9210 \$1.45 ea 10+ \$1.25 ea

4 x C Cell 2 Rows Of 2 End To End



Cat. PH-9216 \$1.85 ea 10+\$1.60 ea

D Or UM-1 Cells 1 x D Cell



\$1.20 ea 10+ \$1.00 ea

2 x D Cell Side By Side



Cat. PH-9220

\$1.85 ea 10+ \$1.60 ea 4 x D Cell 2 Rows Of 2



Cat. PH-9222 \$2.00 ea 10+ \$1.75 ea

9V Or 216 Type Cells

Standard Snap-On



10+ 30¢ ea

**Button Cell Battery** Holder

• PCB Mount Will take all com oxide cells + small lithium batteries etc. Gold plated contacts



\$3.95 ea 10+\$3.50 ea PCB Mount 9V



\$3.75 ea "Lantern" Type Torch Battery replacement Holder Replace expensive lanten batteries with this holder



Fahne Stock Clips Screw on battery termi



\$2.00 pkt 4

Edge Connector Commodore Edge



Connector

Cat. PA-0888 \$6.95 ea 10+\$6,50 ea

## Pin Headers

Pin Headers & Socket Terminal Strips For PCB's Great for PCB mass terminals Vertical Launcher 0.1" Pitch 8 Way



\$1.50 ea 10+ \$1.40 ea Right Angle Launcher 0.1" Pitch 3



Cat. HM-3213 75¢ ea 10+ 65¢ ea

4 Way Cat. HM-3214 95¢ ea 10+85¢ ea 8 Way



Cat. HM-3215 \$1.85 ea 10+ \$1.75 ea

8 Way Connector Socket Not illustrate Cat, HM-3220 \$1.75 ea

### 10+ \$1.65 ea Wire Wrap Pins

Both pins will take three levels of wrap, are 0.025" (0.63mm) square and heavily gold plated. The HM-3712 is a single sided nin terminated at the short end with a slot Supplied in packs of 20



\$2.95 pkt 20 10+ \$2.75

This is a double ended nin with a thicker section 2/3 down the length of the pin. The thicker section is meant to make an interference fit in a PCB (Drill a 0.8 - 0.9mm hole in the PCB



10+\$3.30 **PCB** Pins

termination of wire on PCR Pins - 0.9mm

Cat. HP-1250 \$1.90 pkt 50 10+ \$1.70

Socket to suit HP-1250



Cat. HP-1260 \$3.25 pkt 25 10+\$3.00

Crystal Socket

Socket to suit small eize

Cat PS-1900 60¢ ea 10+ 55¢ ea

Contact Connectors

Pack of 2 easy to use matic connectors. Simply wrap around the existing wire and now wire and squeeze cetor cuts through insulation and makes con without damaging the conductor. Fully insulated once



**TO-3** Insulating Kit



\$1.30 pkt 4 10+ \$1.20 Cat. HP-1120 \$24.95 pkt 100 10+ \$23.00 O-3 Cover

Made of black plastic to cove TO-3 transistors mounted on the outside of cases



50¢ ea 10+ 45¢ ea

TO-220 Insulating Kit

Mica washers and bushes for TO-220 or any flat pack



Cat. HP-1142 95¢ pkt 4 10+ 85¢ Cat. HP-1140 \$14.50 pkt 100 10+ \$13.50

Transistor Socket

TO-3 Economy Phenolic Type



Cat. PS-2300 40¢ ea 10+ 35¢ ea Car Aerial Extension Leads

1 Metre Cat. AA-2094 \$4 95 00



Car Radio Antenna Standard

Lockdown Replacement car radio antenna complete with plug and lead, 4 stage, 820mm long with 2 keys.



Cat AA.2000 \$7.95 ea

Car Radio Suppression

Condensor Noise Suppressor





Cat. AA-3060

\$1.75 ea 10+ \$1.50 ea

## Hot Line Filter

 For CB radio and tane players • Fliminates or reduces ignition noise thru "hot" wire or positive lead to

battery Complete with capacitor
 Cat. AS-3070

\$7.95 ea



## CB Base

mounting helical whips on a



Cat. DC-3060 \$5.50 ea

## Audio/ Video Adaptors

3.5mm Plug to RCA Socket



10+ \$1.80 ea

6.5mm Plug to 3.5mm Socket



10+ \$1.80 ea 3.5mm Plug to 6.5mm Socket



RCA Plug to 3.5mm Socket

Cat. PA-3508 \$1.95 ea 10+ \$1.80 ea RCA Plug to 6.5mm Socket



Mic Connector to RCA Socket 

Cat. PA-3512 \$1.95 ea 10± \$1.80 ea Dual 3.5mm Stereo Plug to 2 x 3.5mm Stereo Sockets



Cat. PA-3582 \$4.95 ea 10+ \$4.75 ea

3.5mm Plug to 3.5mm Stereo Socket

Cat. PA-3584 \$1.95 ea 10+\$1.80 ea

3.5mm Stereo Plug to 6.5mm Stereo Socket

Cat. PA-3586 \$1 95 68 10+ \$1.80 ea 6.5mm Mono Plug to 6.5mm Stereo Socket

Cat DA.2508 \$1.95 ea 10+\$1.80 ea

6.5mm Stereo Plug to 3.5mm Stereo Socket

Cot PA-3500 \$1.95 ea 10+\$1.80 ea 6.5mm Plug to RCA Socket

Cat. PA-3592 \$1.95 ea 10+ \$1.80 ea 3.5mm Plug to 6.5mm Stereo Socket **—** 

Cat. PA-3594 \$1.95 68 10+ \$1.80 ea 6.5mm Stereo Plug to 2 x 6.5mm Stereo Sockets



6.5mm Stereo Plug to 2 x 3.5mm Stereo Sockets

SIFE. Cat. PA-3597 \$4.95 ea

10+ \$4.75 ea RCA Socket to RCA Socket 38 Cat, PA-3

\$1.95 68 10+ \$1.80 ea

RCA Plug to 2 x RCA Socket



10+\$4,75 ea PL259 Plug to RCA Socket



10+ \$3.75 ea PL259 Plug to **BNC Socket** 



\$4.95 ea 10+ \$4.75 ea BNC Plug to RCA Socket



\$4.95 ea 10+ \$4.75 ea

SO239 Socket to BNC Plug TWITH Have B

Cat. PA-3656 \$4.95 ea

10+\$4.75 ea RCA Plug to BNC Female

Cot PA-3655 \$4.95 ea 10+ \$4.75 ea

Audio Leads

5 Pin DIN Plug to 5 Pin DIN Plug



\$4.50 5 Pin DIN Plug to 4 RCA Plugs



Cat. WA-1002 \$6.50

4 RCA Plugs to 4 RCA Plugs

Cat. WA-1003 \$6.95

2 RCA Plugs to 2 RCA Plugs

Cat. WA-1042 \$4.95 RCA Plug to RCA Plug

Cat. WA-1016 \$2.95

Curly Cord 1.8 metres 3 conductor curly cord for microphone replacements etc



Cot WA-1090 \$5.50

6.5mm Stereo Plug to 6 5mm Stereo Socket Curly Cord



**CONCORD 745 3077** 

## Heatshrink **Tubing**

Javcar proudly introduces a new range of high quality heatshrink tubing f Jaycar prouply introduces a new range or right quality necessiting turns Japan. Available in two colours, both in one metre lengths with an extended range of sizes over last year's range. Our new range can be shrunk with a match. Simply place the heatshrink over the item to be insulated or protected and heat to form a permanent covering

1 5mm Black WH-5530

3.5mm Black WH-5532

5mm Black WU.6522

7mm Black WH-5534

10mm Black WH-5535

16mm Black WH-5537

 New colour New sizes \$1.75

 Shrink with a match Remains flexible after shrunk
 1.5mm Red WH-5540

2.5mm Red WH-5541 2 5mm Black W.L. 6624 \$1.75

3.5mm Red WH-5542 \$1.85

5mm Red WH-5543 \$1.95

7mm Red WH-5544 \$2,10 10mm Red WH-5545

\$2.25 16mm Red WH-5547

\$3.25 SOLD IN 1 METRE LENGTHS SHRINKS TO 1/2 SIZE



## Assorted Heatshrink **Pack**

Handy assortment of our new high quality heatshrink tubing in red and black Sizes from 1.5mm to 10mm. 10 pieces in all of 300 & 150mm length

GREAT VALUE Cat WH-5525

\$6.95



## Old Style Heatshrink

We still have some of the old style heatshrink left.

These are available at reduced prices until sold out, Will not shrink with a naked flame. Supplied in a flat style which is easily opened up. \$2.50

\$2.75

Cat Style WS-5516 Flat Old Price SPECIAL PRICE 2 metres \$3.95 2 metres \$3.95 WS-5518 Flat WS-5520 Flat

WS-5520 Flat 2 m WS-5510 Assorted Pack \$4.05 Jumper Lead Kit

10 x 380mm leads, with alligator clip each end. 5 different colours. Thick cable between clips so they won't break. Cat. WC-6010

\$5.95



## Video Leads & Adaptors

Coax TV Plug to RCA Socket Cat. PA-3675

\$2.50 ea 10+ \$2.25 ea

CORX TV Socket to RCA Socket Cot DA seze

\$2.50 ea 10+ \$2.25 ea

> BNC - BNC 1.5 metres Cot AV-6510 \$8.50 ea

3 metres length Cat. AV-6511

\$11.50 ea BNC - PL259 1.5 metres

Cat. AV-6512 \$7.95 ea

PL259 - PL259 1.5 metre Cat. AV-6514

\$7.95 ea RCA - PL 259 1.5 metre

Cat AV-6516 \$5.95 BNC - RCA

1.5 metre Cat. AV-6521 \$7.95

RCA - RCA 1.5 metre Cat. AV-6518 \$4 95



## Stereo Adaptor Lead Kit

any VCR to another. Contains plug adaptors, leads, etc. Cat. AV-6538

\$24.50



See plug and socket section for other leads and adaptors

## Shielded **Audio Cable**

Single shielded PVC govered, light duty cable, ideal for patch cords. small microphones, amplifier wiring etc. Grey in colour. Cat. WB-1500

35¢ metre \$29 per 100 metre roll

## Fig.8 Twin Screened

Two grey PVC covered individually led conductors. Screens electrically separated. Cat. WB-1502

60¢ metre \$50 per 100 metre roll



Twin screened pair (not balanced) Enclosed in a thick wall PVC jacket.

60¢ metre

\$50 per 100 metre roll



4 conductors each shielded and encased in one PVC covering. Ideal for DIN plug and socket wiring Cat. WB-1510

\$1.25 metre \$100 per 100 metre roll



## Capacitance

Special single screen low capacitance audio cable. Suited for high quality amplifiers. As used in our ETI Black Monolith MOSFET power amplifier. Blue in colour. Cat. WB-1530

\$1.70 metre \$130 per 100 metre roll



## 300 Ohm TV Ribbon

The standard flat clear ribbon used by so many for so long. Suitable for indoor and outdoor, low loss and maintains Cet WB-1800

25¢ metre \$20 per 100 metre roll



## 75 Ohm Light **Duty TV Coax**

Designed for colour TV aerial system Suitable for up to 400MHz, Black nsulation and braided shield. Cat MR-2000

80¢ metre \$60 per 100 metre roll

## 75 Ohm Heavy **Duty TV Coax**

As above but heavier gauge, Suited f long runs and general lower loss. 2.6dB less loss per 100 feet than WB-2000. Cat. WB-2004

\$1.00 metre \$85 per 100 metre roll

## 75 Ohm Air Spaced High Quality TV Coax

SPECIFICATIONS: O.D. 6.5MM, S cell P.E. dielectric, aluminium/Mylar foil shield and 48/ 0.12mm copper braid giving 100% shielding, dB loss per 100 metres 50MHz/5,4dB, 200MHz/9.2dB, 470MHz/ 14.4dB, 700MHz/17.7dB, 800MHz/ 19.9dB. Capacitance (1kHz) 5.5nF Cat. WB-2006

\$1,20 metre \$100 per 100 metre roll.

## Fig 8 White 240V Power Flex

Figure 8 wire, white in colour, suited 1 lights and general 240V work not requiring an earth. Rated at 7.5 amp Cat. WB-1560

60¢ metre \$55 per 100 metre roll



## **Three Core** Mains

Standard 240V 3 core grey 10 amp power cable. For all your mains wiring Cat. WR-1562

\$1.30 metre

\$120 per 100 metre roll

## **Light Duty** Fig 8 Speaker

Ideally suited for Hi Fi systems. intercoms, etc. One conductor marked so polarity is not reversed. Grey with black trace. 14 x 0.14mm. Cat. WH-1702

25¢ metre

\$19 per 100 metre roll

## **Medium Duty** Fig 8

Suited to amplifiers up to 150 watts. Size 19 x 0.193mm. One side has trace for correct polarity connection. Cat. WB-1706

40¢ metre

\$30 per 100 metre roll



watts Colour coded Cat. WB-1708 \$33 per 100

45¢ metre metre roll

## Jumbo Speaker Cable

For the audiophile who wants the best of speaker cable. Figure 8, 259 strands in each side. DC resistance 0.003 ohms per foor, Inductance 0.23uH per foot. You can hear the

\$3.50 metre \$280 per 100 metre roll STATE OF STA

## Flexible Light **Duty Hook-up** Wire

13 x 0,12mm Suited for all general purpose wiring work, 8 different colours available DED

Cat. WH-3010 Cat, WH-3011 BLACK Cat. WH-3012 BROWN Cat. WH-3013 ORANGE Cat. WH-3014 YELLOW Cat. WH-3015 GREEN Cat. WH-3016 BLUE Cat. WH-3017 14¢ metre

\$8 per 100 metre roll

## Flexible Light **Duty Hook-up** Wire -25m Rolls

a roll of each colour hook-up wire by their work bench. Quality 13/0.12 tinned hook-up wire on plastic

spools. Red Yellow Cat. WH-3004 Cat. WH-3001 Black Green Cat. WH-3005 Brown Cat. WH-3002 Cat. WH-3008 Cat. WH-3003 Cat. WH-3007 Rlue Orange White

\$2.95 per reel BUY ONE ROLL OF EACH COLOUR - 8 ROLLS IN

ALL FOR ONLY \$19.95 Cat. WH-3009



24 x 0.2mm Suitable for 250V wiring and general heavy duty work. Rated at 7.5 amps. Cat WH-3040 RED Cat. WH-3042 GREEN Cat. WH-3041 BI ACK

30¢ metre

\$25 per 100 metre roll

## **Extra Heavy** Duty

Suitable for 250V wiring and general heavy duty work. Rated at 7.5 amps.

BROWN

BILLE

Cat. WH-3050 Cat. WH-3052

35¢ metre \$26 per 100 metre roll

## 3mm Auto Cable on 9m Rolls

The economical way to buy auto cable. Seven colours available on handy 9.25 metre rolls, Every car should have a roll in the tool Cat. WH-3080 RED Cat. WH-3081 BLACK Cat. WH-3082 BROWN Cat. WH-3083 YELLOW Cat. WH-3084 GREEN

Cat. WH-3086 \$3.99 per reel

BLUE

WHITE

Cat. WH-3085



## IDC Ribbon Cable

Designed for IDC connectors, Grey Cat. WM-4502 16 way \$1.95 metre Cat. WM-4504 25 way \$2.95 metre Cat. WM-4506 34 way \$3.95 metre



## Rainbow Cable

Colour coded strands of insulated conductor bonded together in a flat cable. Ideal for rewiring looms, can be split and each individual wire used. Same rating as 13 x 0.12mm





## **Curly Cord**

1.8 metre 3 conductor curly cord for ophone replace



## 50 Ohm Light **Duty RG58AU**

Suited up to 500MHz. Ideal for C8 radio, marine, amateur and two-way Cat WB-2010

80¢ metre \$60 per 100 metre roll

## 4 Core Alarm Cable

4 core, flexible stranded conductor (7 x 0.18) in tough outer sheath.

75¢ metre \$60 per 100 metre roll

## Microphone Cable

High quality black PVC covered with cotton filler. Size 14 x 0.18mm. Conductor O.D. 4.6mm. Cat. WB-1520

\$1.40 metre \$120 per 100 metre roll Microphone

### Cable - Twin High quality twin shielded with tinned braided copper, which makes it ideal

for balanced line microphones. O.D. 5.2mm Cat. WB-1524 \$2.10 metre

\$185 per 100 metre roll



## Computer Cable

Two new cables suited for computers, etc Both are shielded to stop RFI. 6 WAY Cat. WB-1575 \$1.65 metre \$130 per 100 metre roll 9 WAY Cat. WB-1578



# Type Cable

Similar to what Telecom use for telephone wiring. Single core cable each PVC covered and in an outer cable. Three types available. Great for intercoms, alarm wiring etc. Cat, WB-1602 2 pair (4 wire) 65¢ metre \$50/100m roll Cat. WB-1603 3 pair (6 wire)

85¢ metre \$65/100m roll Cat. WB-1610 10 pair /20 wire \$1.95 metre \$150/100m roll



## Copper Wire

B&S Wght WW-4008 0.125 36 25g WW-4010 0.2 32 25g WW-4012 0.25 30 25g \$3.50 \$2.50 WW-4013 0.3 28 259 WW-4014 0.4 26 25g \$3.50 24 100g \$4.75 WW-4018 0.63 22 100g \$4.75 WW-4020 0.8 20 100g \$4.75 20 100g \$4.75 WW-4022 1.0 18 100g \$4.75 WW-4024 1.25 16 100g \$4.75 For winding chokes, crossovers coils et Supplied on its

## Tinned Copper Wire



(0.71mm) Two handy sizes of 22 swg APPROXIMATELY 6 METRES IN A PACK Cat. WW-4032

\$1.95

100 GRAM ROLL Cat. WW-4030 \$6.50



## Wire Wrap Wire

Assorted colours ..... wire for wire wrapping. Colour Cat. WW-4310 Cat. WW-4312 Rlue 100 Cat. WW-4314 Cat. WW-4316 Red 100

Length 3.5° ALL ONE PRICE \$5.95 ea Cat. WW-4330 Black Cat. WW-4332 Blue 100 Cat. WW-4334 Cat. WW-4336 ALL ONE PRICE \$6.95 ea

Mini Teflon Pack

Very high quality, small diameter Teflon coated 75 ohm, 1 metre lengths Cat. WB-2300 \$3.95 BUY IN BULK AND SAVE Due to our bulk buying we can offer

bulk packed lengths at special prices. \$10.00 Cat. WB-2304 10 metres \$20.00

Cat. WB-2306 50 metres \$75.00

## Hook-Up Wire Pack

2 metres of 8 different colours of 13 x 0.12mm hook-up wire \$2.25 Cat. WH-3025

## Spaghetti Pack

tubing suited to Cat WS-5502

A bag of assorted sizes of plastic \$3.50

### Wire Stripper 'T' Rex Our wirestripper, nicknamed 'Tyranosaurus Rex' is far from extinct!

It's a great way to strip all sorts of cable without damaging the conductors. It's also a price breakthrough. · Automatically adjusts to insulation diameter One hand operation

Cat TH-1824 \$12.95

## **Cradle Relays**

Cat No	Coil Volts	Coll	Contact Set	Amps	Contact Power
SY-4016	12	325	DPDT	Max.	Max. 120VA
SV-4000	12	170	4PDT	1.4	60VA

SY-4015 48 Sizes: SY-4016 29 x 17 x 30(H)mm SV-4009 29 x 18 x 30(H)mm SY-4015 30 x 25 x 32(H)mm Prices: Cat. No 1-9 10+ SY-4016 \$ 7.50 \$ 7.00

SY-4009 \$14.50 \$14.00 SY-4015 \$ 2.95 \$ 2.50 TERMINAL ARRANGEMENT (Bottom View)



## Cradle Relay **Sockets**

Cat. SY-4002 2 changeover (DPDT) 10 + \$1.25 Cat. SY-4004 4 changeover (4DPT \$2.50 10 + \$2.20



## Thermal/Magnetic 0.5 Amp Circuit Breaker

QUALITY MADE E-T-A GERMAN MAKE Single pole plunger type, 240V AC or 65V DC

Will interrupt when current exceeds 0.5 amp. Has thermal overload (slow current increase) and magnetic overload (fast current increase) for double circuit protection. Has 2 aux contacts (NO & NC) to trigger remote alarms if necessary Size 60(L) inc. pushbuttons x 42 x 6mm



### Cat. SC-2280 \$4.50 ea

10 or more \$4.00 ea

## Horn Relay

Whilst designed for auto horns, this relay is ideal for any high current application i.e. burglar alarms, ignition cutout, transmitters, etc. - as well as for horns! SPST contacts.

Contact Current (max) Contact Voltage (nom) Nominal Coil Voltage Cat. SY-4068

\$6.75 ea 10 or more \$6.50 ea

## "Octal" (Industrial Type)

12 volt coil 10 amp DPDT contacts. OEM quality. Heavy duty relay, Ideal for power supply and control circuit switch. Size: 54(H) x 35 x 35n Cet SV-4020

## \$15.95 ea

10 or more \$15.50 each

### **RELAY SOCKET** TO SUIT

Screw down type with screw terminals. Cat. SY-4021

### \$6.95 ea

10 or more \$6.50 each



## DIL IC

### Socket Mount Extra low profile 11(H) x 16(W) x 11(D)mm

5V DC bobbin. 1A contact rating, 56 of resistance. SPDT. 0.5 amp at 120V AC Cat. SY-4058

\$5.50 ea 10 or more \$5.25 each



## **Double Pole** Lamp Relay

DPST contacts - each rated at 30 ampsi ideal for Quartz lodine driving lamps or any high current switching application. Contacts can be paralled for a 12V 60 amp rating.

Contact Current (max) Contact Voltage (nom) 2 x 30A Nominal Coil Voltage

Cat. SY-4070

only \$16.95 ea 10 or more \$16.00 ea

## Mini PCB Relays

SPDT Mini

12V DC bobbin, 1 amp (conservative) contact rating. Fully sealed unit measuring: 23(H) x 20(W) x

Cat. SY-4060 \$2.95 ea

10 or more \$2.75 ea

12V DC bobbin, 1 amp contact rating. Size; 21 x 16 x 17(H)mm Cat. SY-4061

\$4.75 ea 10 or more \$4.50 ea

Mini PCB Relay - Heavy Duty SPDT 12V DC bobbin, 3 amp contact rating Size: 21 x 16 x 17(H)mm Cat. SY-4066

\$3.75 ea

10 or more \$3.50 ea



## **Special PC Mount**

Elegant relays. PCB mounting featuring silver alloy SPDT 12V DC, Coil 285 ohms, 10A @ 30V DC

or 10A @ 240V AC contact rating. Cat SY-4050 SPDT

\$7.95 ea ලේක 10 up \$7.20 ea 3 4 DPDT 12V DC. Coll 285 ohms. 2 x 5A @ 30V DC or 2 x 5A @

240V AC contact rating Size: 29 x 12 x 26(H)mm Cat. SY-4052 \$9.95 ea

10 up \$9.20 ea



## **Power Relay**

Where really heavy currents need to be switched for large mains appliances, high power speakers Rated at 10A 240V AC. Coil 12V 160 ohms. DPDT contacts Size: 27 x 20 x 35(H)mm Cat. SY-4065



## **High Grade Stereo Mixers at Direct Import Prices**

ATTENTION - Social Clubs, Schools, Churchs, Disco Operators, Entertainers, Hotels, Night Clubs and Sporting Bodies. With Jaycar's low prices - here is your opportunity to install one of these outstanding sound control mixers.

## Stereo Audio Mixer

### This brilliant little mixing console is absolutely packed with features. It allows blending of microphone, two phono inputs and either two tape or tuner inputs.

- · Right and left VU meters
- Separate bass and treble controls
- Headphone monitor switch
   Talkover facility
- 240V mains operated SPECIFICATIONS:

Mic 0.5mV 600 ohms

Output

Phono 3mV 50k ohms Tape/tuner 150mV 100k ohms

Frequency 20Hz - 20kHz (±1dB) Tone Control Treble 10kHz (+12dR) Bass 100Hz (±12dB) Distortion Less than 0.07%

S/N Ratio More than 60dB 4 - 16 ohm H/P Impedance Dimensions 318(L) x 217(W) x 85(H)mm Cat. AM-4200











## Stereo Mixer with Equaliser

A very professional unit at an affordable price.

- **FEATURES** · 6 inputs of which 4 are for microphone or line and 2 for phono
  - incorporating 4 x RCA and 2 x 6.5mm sockets · Headphone socket with volume control
  - Output level VU meters or LED display
  - · Mic input volume control
  - · Master volume control
- · Fader and cue control 5 band equaliser
- · 240V operated

SPECIFICATIONS: Sensitivity Phono 3mV

Mic 1mV Line (tape or tuner) 150mV

S/N ratio Phono 55dB Mic 60dB Line 65dB

Phono 20Hz - 20kHz (RIAA ±2dB) Frequency Mic 20Hz - 20kHz +3dB

Line 20Hz - 20kHz +3dB Channel Bal 0.5dB Less than 0.03%

H/P Impedance 4 - 16 ohms Output 0.775V Centre frequency 60, 250, 1k, 4k, 12k Equaliser

Control Gain ±12dB

Dimensions 15.8"(W) x 10.5"(D) x 3.4"(H) Cat. AM-4202

\$299

## 4 Channel Microphone Mixer

Its size and simplicity make this mixer very portable and easy to operate. It will accept up to 4 low impedance microphones. With power on LED. SPECIFICATIONS

4 low impedance 600 ohm microphore individual gain control for each microphone Inputs/outputs - 6.35mm mono sockets

9V DC (battery only) 1.5k ohm 55dB 20Hz - 10kHz ±2dB 90mV (at input 5mV) 148 x 46 x 86mm

Power Source

Freq. Response

Output Level

Cat. AM-4204

Output Impedance

\$49.50





### TURN YOUR SURPLUS STOCK INTO CASHU

Jaycar will purchase your surplus stocks of components and equipment. We are continually on the lookout for sources of prime quality merchandise.

> CALL GARY JOHNSTON OR BRUCE ROUTLEY NOW ON (02) 747 2022

## Unidirectional Balanced Top of the Range "A.K.G." Insert

A top quality microphone finished in matt grey. Features the famous "A.K.G." insert fitted into a rubber mounting anti-shock holder, Has on/off switch. Cannon connector and comes with holder.

Unidiscational balanced line 600 ohms (no transformer) Impedance

Freg. Response 70Hz - 15kHz -77dB Sensitivity

5 metre cord/Cannon to 6.35mm plug

Cord/Plug Cat. AM-4060 \$125



## Unidirectional Balanced Line **Dual Impedance**

The best all round microphone we could find. Balanced low and high impedance. Fitted with a "Primo" rubber mounted insert. Finished in matt grey, with on/off switch and Cannon connector

Unidirectional - dual impedance - balanced line Impedance

600 and 20k ohm 50Hz - 17kHz Lo -76dB, Hi -58dB Freq. Response Sensitivity

5 metre cable/Cannon to 6.35mm stereo plug Cord/Plug Cat. AM-4065



## Unidirectional **Balanced Line**

A heavy grey metal body microphone, mesh grill fitted with a "POP" filter and on/off switch. Supplied with Cannon connector and mic holder.

Type Unidirectional - balanced line

600 ohm Freg. Response Sensitivity

50Hz - 15kHz Cord/Plug Cat. AM-4062 5 metre cable/Cannon to 6.35mm plug

\$67.50



## **Dual Impedance** Unidirectional **Dvnamic**

A quality microphone made from zinc diecast metal with non reflective matt grey finish. Fitted with anti "POP" fitter and on/off switch. Complete with cord and microphone clip

Freq. Response Cat AM 4003

600/50k ohm 50Hz - 14kHz Lo -78dB, Hi -58dB

6 metre cable/4 pin to phone plug \$44.95

Low Cost

## **High Quality** Unidirectional

An excellent value for money microphone. Silver in colour, plastic body with black metal grill incorporating anti "POP" filter. Supplied with on/off switch and desk stand. Туре

Unidirectional - low impedance Impedance 600 ohm Freq Response 100Hz - 15kHz

-74dB Sensitivity Cord/Plug Cat. AM-4090 3 metre cable/6.35mm plug

\$19.95



## Electret Unidirectional

A very popular slimline microphone. Anodised champagne aluminium body, mesh grill with built-in windscreen. Includes mic holder and battery.

Type Unidirectional - low impedance - electret

Impedance 600 ohm 20Hz - 20kHz -72dB Freq. Response

Sensitivity Cord/Plug Battery Cat. AM-4080

3 metre/6.35mm plug 1.5V AA type

\$29.95



## Wireless Microphone

Very easy to use microphone. Finished in matt grey with black mesh grill. Runs on 9V battery for long life

Type Tuneable Freq. Response Range Power Source Cat, AM-4072

92MHz - 104MHz 50Hz - 15kHz
Over 100 metres in open field

9V (216) battery \$17.95



## Wireless/Wired Electret

Best of both worlds can be used as a conventional wired microphone as well as a tuneable wireless microphone. Complete with on/off switch, foam windshield and mic holder.

Туре Tuneable Freq. Response Field Strength Impedance Battery Cat. AM-4070

Omnidirectional - low impedance - wireless/wired 88MHz - 108MHz 50Hz - 16kHz 15uV/100m 600 ohm 1.5V AA

\$37.50



## Wireless Microphone and Receiver

Crystal locked FM wireless microphone and receiver at an affordable price. Electret insert in microphone and high-low switch assures adequate sensitivity and coulout to receiver. Receiver features on/off switch assures adequate sensitivity an output to receiver. Receiver features on/off switch with output volume control and LED power on indicator, also has an AC adaptor inlet socket.

Type Unidirectional - crystal locked wireless system

Transmitting Freq. 37.1MHz Microphone Power Supply Range Receiving Freq. Power Supply Cat. AM-4075

Output

9V (216) battery 37.1MHz

30mV via 3.5mm plug

Electret condenses \$99.95 300 feet in open field 9V battery or 9V powr adaptor



## **Crystal Locked** Wireless Microphone **System**

Adds a new dimension to video movie capabilities by allowing the miniature wireless microphone to be attached inconspicuously on the subject. The receiver attaches to the video camera, no longer will noise between camera and subject cause annoying

200 feet (open field)

SPECIFICATIONS - TRANSMITTED Power Supply 3 x UM3/AA 1,5V batteries Approx 30 hours Battery Life 37 BMHz Standard Transmitting System Crystal oscillation Microphone Element Electret RF Power

Frequency Stability 0.005% Frequency Range SPECIFICATIONS - RECEIVER 70Hz - 12kHz Power Supply 9V battery or 9V DC power adapto Rattery I ite Approx 5 hours 37.6MHz Receiving System Intermediate Frequency

10 7MHz S/N Ratio Over 85dB Image & Spurious Rejection Cat. AM-4076 at least -75dB

\$139.50



## Unidirectional Wireless Tie Clasp Microphone

This incredibly small microphone just clips on your tie or collar and transmits on FM.

No more messy wires to trip over • Tunable 88MHz - 108MHz FM Frequency Response 100Hz Electret condenser type Cat. AM-4068

\$36.50



## Quality Tie Clasp Microphone

Low impedance, omni-directional electret condenser. A very small microphone which clips on to your tie. Supplied with 3 metres of cable to a 3.5mm plug. 1k ohm

impedance Frequency resi Cat. AM-4067 ponse 40 - 16kHz.

\$29.95



## Microphone Desk

Stand

Quality toughened metal stand with adjustable height for any size desk.



## Microphone

Holder

Unique new universal holder, it has a powerful spring loaded clamp which Standard 5/8" x 27 thread.



## Flexible Gooseneck

Standard metal gooseneck, 5/8" male to 5/8" female

15cm long. Cat. AM-4115

\$5.50



## Telescopic Floor Stand

Quality, stable floor stand. Single draw telescopic stem fitted with friction grip and dual screw adantor, 3/8" and 5/8" for microphone holder HEIGHT 96cm to 154cm WEIGHT 3.4 kg

\$57.50

Cat. AM-4122

## Microphone Wind Shield

All four models are black and suit most microphones.

Made of sponge rubber Cat. AM-4131 20 - 22mm

\$5.50 Cat. AM-4132 \$5.50

Cat. AM-4133 33 - 36mm \$6.50 Cat. AM-4134 36 - 42mm





## Weather **Proof** Hi Fi Extension **Speakers**

lew for our 1988 product lineup, Jayca New for our 1988 product lineup, Jayca Redford outdoor speakers. Redford speakers feature: rugged extruded aluminium construction, supert powdercoat industrial paint finish, excellent reproduction, engineered in Australia, superior to imports - yet a fraction of the cost

Rugged Extruded Construction These vibration free enclosures are constructed from die extruded heavy guage aluminium and finished with incredibly durable industrial powder coated black enamel. The speaker ends are sealed via gaskets and tough caps. The end result is "Good Looks together with assured rugged durability for the Australian environment. Excellent Reproduction The drivers have been chosen for wide

range, low distortion, mid range "presence" (essential for high grade vocal work) and high efficiency in general. Power Capacity for short term use, the drivers will safely handle 150% of rated power. Acoustic wadding is used to dampen bass resonance.

Wather Proof Construction and use of \*Doned Cones\* Foam plastic and cloth is sandwiched between baffle and front grille to prevent water ingress. A first for Redford is the use of a patented moisture repellant process for all



Single dual doped cone driver 16 ohm impedance is employed to give a generally correct volume balance with main speakers - an added bonus is your amplifier load is kept to respectable limits! Great for back patio, den, boat Size: 275(H) x 187(W) x 135(D)mm

### Cat. AS-3040 \$109 each

Uses 2 special dual doped cone driver for those wanting a bit more umphl - 8 Size: 455(H) x 167(W) x 135(D)mm Cat. AS-3042

\$149 each



Quality woodgrain finish speaker box. Designed to hang on a wall for PA use or just as an inxepensive speaker for Hi Fi radio etc SPEAKERS TO SUIT 8" 10 watt twincone Cat. CE-2325

\$13.95 Magnayox 8JX 40 watts Cat. CE-2333

\$28.50 Magnavox 8WR 65 watts Cat. CE-2338

Speaker Box Cat. CB-2360 \$26.50

10 up \$24.50 each









**GORE HILL 439 4799** 

## Mic Insert

Great replacement electret mic inserts for tape recorders, etc. Handy for hobby projects. Includes data sheet and applications circuit. Operates from a single 1.5V battery. 10mm diameter. 50Hz - 15kHz. Cat. AM-4010

\$1.95



## Unidirectional Electret Insert

A direct import unit that is ideal for the EA Parabolic Microphone project in November 1983 EA. Average sensitivity around 768 BETTER than the common low cost electret insert. The insert has a front-toback ratio of 1.5:1. The power requirements are the same as for the low cost mic insert. Each insert is supplied with a comprehensive data sheet which includes connection details, specifications and frequency response graph.

Cat. AM-4012 \$5.50





## Ultrasonic **Transducers**

These units operate at 39kHz, are of high sensitivity and directional design. They are suitable for Burglar Alarms, Movement Detectors and Interrupted Beam. They are sold as a transmit and receive pair. Cat. AU-3850

\$17.95 pair



This device is capable of picking up vibrations, thumps and bangs, etc. These are used successfully in the sophisticated ETI 340 Car Alarm. Cat. AM-4000

\$8.50

## **E180 VHS** Video Tapes

MAXELL E180 Cat. AR-1450 \$12.95 ea 10+ \$12 50 ea

TDK E180 Cat. AR-1440 \$14.95 ea

## Walkman **Speakers**

Pair of micro mini stereo speakers. Ideal for Walkman type radios, players. Cat AA 2050

\$15.95 pair



## 240 Volt Head Demagnetiser

With this powerful mains operated demagnetiser you can remove built-up magnetism in your cassette heads and guides in just a few seconds. Don't put up with noisy reproduction - keep your

cassette machine in tip top condition. Cat. AC-1600 \$14.95

## Headshell

If you own two cartridges you need two headshalls ality brand, standard 1/2" fitting. Complete with mounting screws Cat. AA-0200

\$3.95



## **TDK Audio Tapes**

Cat. AR-1410	D60	Pack of 3 \$ 8.95
Cat. AR-1412	D90	Pack of 3 \$11.95
Cat. AR-1416	AD60	Pack of 2\$ 7.95
Cat. AR-1420	AD90	Pack of 2 \$10.50
Cat. AR-1425	SA90	Pack of 2 \$13.95



## Crystal Earpiece

Crystal earpiece of high impedance with 3.5mm plus. Suitable for crystal sets or for

\$3.75

10 or more \$3.60 each



## Magnetic Earpiece

Magnetic 8 ohm earpiece with 3.5mm plug connected. Suitable for radios, portable TV's etc. Lightweight and easy to use.

Cat. AS-3300

10 or more \$1.10 each AS ABOVE Fitted with 2.5mm plug Cet AS-2201 \$1.25 ...

10 or more \$1.10 each

## Dynamic Earphone

High quality earphone with ear Frequency Respo Sensitivity

Cat. AS-3303 \$6.99



## Erasa Video Labels Got a video? Do you have hassles with trying to

remove sticky title labels from cardboard video boxes? Erasa Labels consist of a full length label which you stick on once, and a special pen, When you record over a tape, simply rub the label with a damp cloth and reuse. 12 VIDEO LABELS AND A PEN Cat. AB-6600

\$4.99





HURSTVILLE 570 7000

## **Digital** Headphones

We have introduced a range of high quality attractively boxed stereo headphones specifically designed to handle the dynamic range of CD players.

### SA700

These phones feature 32 ohm Mylar drivers and low fatigue headband assembly. A 10 foot cord is provided with a quality METAL 3.5mm stereo plug. The headband has a separately adjustable strap to get a good 'lit'. Many otherwise good headphones have a poor head fit. Sponge rubber earpads.

Cat, AA-2021 \$29.50

### SA800

The big feature of these phones is the obvious quality. The main headband is The big feature of these johnnes is the obvious quality. The main headband is stainless steel with a sub-band that is adjustable to a considerable degree. The multipade are beautifyl made (oro mit he softest leather-like material we have ever seen; it is seen up as a foam filled ring; and if might even be seather if gives an externely comfortable fill to you sea and effectively seads out external noise. A generous 10 commortable III to your ear and effectively seals out external noise. A generous 10 foot heavy duty cord is provided terminating in a quality METAL 6.5mm stereo plug Cat. AA-2022

\$39.50

### **SA888**

Similar to model SA800, except with larger Mylar drivers and further development of Similar to model SA800, except with larger Mylar drivers and further development of the earpad assembly. Simply the finest phones we have tested in a long, long time. They compare very favourably with pricay German phones. Cat. AA-2023

## \$59.50

### SPECIFICATIONS

High velocity Mylar diaphragm driver 32 ohms 102dB (1mW)

Output SPL Freg. Response Rated Input

20Hz - 25kHz 100mW 10ft with 6.5mm stereo plug Cord



Genuine factory made spare foam earpads for the famous Sennhelser HD-414 Cat. AA-2011

\$11.95





Foam earpad replacements for mini headphones. 27mm diameter - 2 pairs Cat. AA-2012

\$3.75

## **Ultra Light Walkman Phones**

Quality phones at a realistic price Cat. AA-2016



# Top Quality

You'll be amazed at the superb sound from these Test drive a pair today

Cat. AA-2019 \$24.95



## Headphone/Microphone

A comfortable set of large aircraft style headphones with Hi Fi performan and a 600 ohm omni-directional boom microphone. The uses are endless.

The mic is mounted in a superb gymbal mount which adjusts so that the mic is positioned close to the front or side of the wearer's mouth.

 CB'ers Amateur radio mobile Rock groups
 SPECIFICATIONS Headphone: 40mm diameter Mylar drivers 400mW max input power Impedance 28-32 ohms

Cord length 6 foot Microphone Type dynamic Omni-directional Impedance 600 ohm Sensitivity -84dB @ 1kHz Cord length 7 fool Cat. AA-2020



Unique type headphones, so small they can be stored in a MATCHBOX. Very high sound quality and comfortable to use. Supplied with adap plug to 6.5mm and spare replacement ear pads. Cat. AA-2014



## **Keyless** 4 Sector

The latest addition to our range of alarm equ The LA-5170 is a reliable and versatile panel designed for residential and commercial systems. It employs the latest electronic circuitry and the most up-to-date security technology. It has 4 independent and isolated protection circuits which accept both normally open (N.O.) and (N.C.) normally closed switches and are sealed with end of line resistors.

Two independent siren drivers with tamper proof, two output relays, two auxiliary output supplies for peripheral accessories and the facility for multiremote station connections are also employed.

### FEATURES AND SPECIFICATIONS

+ SECTOR 1 24 hour instant emergency circuit protects siren covers and outside buildings continuously even when alarm is off

· SECTOR 2 Perimeter instant circuit · SECTOR 3 Interior instant circuit · SECTOR 4 Interior delay circuit All sectors sealed with 10k end-of-line resistor for total security. This means that if a wire is cut the

alarm will go off All sectors can be isolated independently. All sectors accept both N.C. and N.O. switches

 5040 combination alarm/disarming code, easily Exit delay - 60 seconds typical

· Entry delay - 2-90 seconds adjustable, with selectable "beep" Siren duration 0.5 - 10 minutes adjustable

 More than one remote on/off keyswitches/keypads can be connected and connecting wires are tamperproof. 12 volt DC outputs for running accessories/sensors,

one switched and one continuous Alarm outputs

latching relay with 3 amp N.O. dry contact

- Tirning relay with 3 amp N.O. dry contact 2 independent driven outputs for 8 ohm horn speakers, tamperproof.

 Panic button on alarm pane Dimensions 258(H) x 172(W) x 74/Dimen

 Net weight 1.9kg
 Gel Battery to suit 1.2 amp Cat. SB-2480 \$22.50 Power supply to suit 16V AC Cat. MP-3021 \$22.50 We believe this is one of the best alarm panels we have evaluated. We have seen numerous other panels with less features that cost more, Cat. LA-5170

\$259



# **Keyless**

FEATURES AND SPECIFICATIONS Five Protection Circuits

one 24 hour NC instant circuit Emergency one 24 hour NO circuit Burglary one NC instant circuit one NC delay circuit

one NO delay circuit Intelligent Siren driver changes Alarm Tone for different events

 Drives 2 x 8 ohm horn speakers maximum Adjustable entry delay and siren duration times
- Entry delay 1 - 30 seconds

 Siren duration 0.5 - 10 minutes with auto reset 60 second exit delay - for all protection circuits Separate siren timers for burglary and emergency

Two Independent NO relay output contacts

Timing relay contact with auto reset time according to

 Latching relay contact with contact stays close after alarm condition Auxiliary 12V/500mA DC output

ious and controlled on/off by key switch · Conti available For powering accessories, such as motion detectors. smoke detector, photoelectrics, etc

Audible alarm status indication

Exit delay period - short BEEP at half second interval (selectable for silent exit) Entry delay period - 2 second 'BEEP' at quarter

second interval (selectable for silent entr Alarm testing - 2 second 'BEEP' at quarter second Tampering - 2 second 'BEEP' at quarter second.

 Low battery - short 'BEEP' at 8 second interval 6 LED lamps on panel indicating alarm status 24 hour panic button mounted on panel · More panic buttons can be mounted at remote

locations Alarm on/off by digital access key One remote key can be mounted on other location (digital keypad or electromechanical key switch are possible)

Complete tamper proof system

Tamper proof for remote key Tamper

 Tamper proof for siren horns Tamper proof plus locking cam lock for cabinet Tamper proof plus locking carri lock for call Built-in test switch for convenient testing Disables the siren driver and output relays and enables the internal buzzer in testing to prevent noise pollution

Allows use of rechargeable battery or dry cells as

This low cost, but professionally made stee encased alarm has most of the main feature of professional control boxes inclu

 Lockable baked enamel steel box including amner switch · 3 sectors NO or NC

 Trigger instantaneously if any sensor wiring cut
 Space in box for back-up battery
 24 hour instant circuit that is not governed by keyswitch, for smoke detector, ect

\* Facility to connect remote keyswitch (Alarm will latch if remote wiring is cut, whether alarm is "off" or · Built-in siren driver Relay output control provides 12V DC for hells

sirens, etc. · Diagnostic audible and visual alarm status Indicators

 Simple one key operation, ideal for non-technical people to operate once installed. Dimensions 230(H) x 170(W) x 70(D)mm

 Net weight 1.8 kg Cat. I A-5162 \$149.00

Gel battery to suit Cat. SR-2480 \$22.50 Power supply to suit 16V AC Cat. MP-3021 \$29.50



When wiring your alarm, why not use a screamer or two for inside.

This incredible little piezo screamer This incredible little piezo screamer (measuring 57(L) x 33(H) - less bracket) emits a 116dB wall. It sounds like a very loud canary. The sound at close range is almost unbearable! if you mount it inside your car and your alarms fires, a would be thief would probably be scared out of his wits! Ideal for any compact high noise alarm

VIRTUALLY UNBEARARI F **ONLY \$17.95** 

Cot I A Socs

10+\$16.95

COUNTRY ORDERS 008 022 888

## Infra Red with Pulse Count **Triggering**

The absolute latest technology is used in this PIR It employs a pulse count triggering circuit which

Here's how it works. The circuit first senses an alarm (pulse 1) and then

goes into alarm standby mode for 30 seconds duration. If during the 30 second standby mode a ouration, it ouring the 30 second standby mode a second alarm event occurs (pulse 2), the detector goes immediately into alarm, and the standby period will be extended for another 30 seconds. If there is no second alarm pulse during the 30 second standby mode the detector returns to normal condition. The unit is also selectable for single shot triggering. The LA-5019 also has dual element pyroelectric

sensor incorporating "daylight" filter designed to provide immunity from common mode signals such as the effect of strong hot or cold air currents variation in ambient temperature, background radiation and acoustic noise

FEATURES Dual element pyroelectric sensor Pulse count triggering circuitry

Fresnel lens array large coverage • 24 dual element detection zones for long, mid and short range protection

 Surface or corner mounting without evtra annessories

SPECIFICATIONS Detection Pattern 84.2° angle span, 12 metre Detection Zones

24 dual element zones in 3 lavors One pattern locator, one alarm LED Indicators walk test indicator 2 metres above floor, 13.96 Mounting Height angle of tilt on back plate

Mounting Location Indoor only. Flat surface or 10.5 - 16V DC Operating Voltage

15mA typical Quiescent Current Dual element pyroelectric Sensor sensor with daylight filte Triggering Mode Pulse count or single shot

NO (fail safe) contacts, 0.5A/ Alarm Output 24V rating 2 seconds typical Alarm Period NC when depressed, 0.5A/24V Tamper Contact

rating Test point analysing 115 x 74 x 73mm Testing Output Dimensions 160 gram Weight

Cat. LA-5019 \$139





Cat. LA-5018 \$119

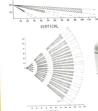
**Economy PIR** With Pulse Count

Dual element pyroelectric sensor

(left).

This PIR works in the same manner as the LA-5019







The infra red or IR detector for short, falls into the The infra red or IR detector for short, talls lift the Black Magic category. It basically is a high gain passive tuned receiver of a particular IR band. The heart of of the unit consists of a high gain lens (antenna?) which has a "Commutated" field of view its reception pattern is comb like, but highly tuned to the IR wavelength of human bodies. When a human passes within proximity of the pickup area, the lens will selectively pick up IR radiation and then not Movement across the pickup area will result in a series of pulses sent to a detector circuit. IR detectors are very reliable as they do not transmit and will not respond to non heat radiating objects, curtains, for example, can wave about without tripping the alarm. Even the cat is unlikely to

FEATURES 12V DC powered Double sensor

 Computerised OC to lower failure rate Built-in test lamp Alarm output SPST 30V DC @ 1A

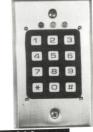






This keypad is designed to be mounted near your exity entry point allowing your panel to be safely hidden elsewhere. The LA-5160 digital access keypad is a 12 button electronic coded combination lock. It provides two sets of secret codes, there are 11,880 different combinations possible for security key and 132 for panic. The keypad is mounted on a brushed stainless steel mounting plate which is designed to fit into a single electrical gang box, for flush mounting. It incorporates a normally closed tamper switch, and is suited for most kinds of security systems and electronic door strike applications. It is a simple system which is easy to use (even for kids) but virtually impossible beat, ideal for use with our new alarm panel LA-5162. Wiring details supplied with alarm panel. Cat. LA-5160

\$99.50





This brilliant new product uses a built-in passive infra red (PIR) detector that reacts instantly to body heat. and activates a light when a person approaches your home. The light is automatically turned off when the person leaves. The sensor will switch up to 600 watts and when set will only operate at night. After triggered. the lights can be adjusted to remain on anywhere between 5 seconds and 10 minutes. Features:

- Compact design · Fully automa
- Security keeps intruders away . Safety - no more groping in the dark
- Convenient hands free operation · Compatible with incandescent, flourescent, quartz
- and halogen lighting
- Indoor/outdoor applications
- Suitable for entrances, porches, patios, stainways, garages, basements, hallways, closets, attics.
- storerooms, warehouses, workshops, etc · Can be operated in daylight or darkness Specifications:
- Detection coverage 12 mt long x 110° wide (fan
  - Detection zone 38 beams Mounting height - 1.8 - 2 metres
     Power consumption - 3 watts maximum
  - . Lighting load 600 watts max
  - Water resistant 240V AC operated

DON'T PAY \$199 use existing lights Cat. LA-5130

\$115



## Car Theft Deterrent With Ignition Killer

One better than the "claytons" type flasher deterrent. Not only does this unit have a bright flashing bezel, it incorporates an ignition killer. Turns on auto when ignition is turned off,

- Don't let your vehicle become a statistic.

  Stops engine from being hot wired
- · Push button reset for starter cut out
- · Automatically turns on/off with ignition Bright dashboard visual deterrent
- No false plarms Full wiring instructions supplied
- Cat. LA-5095 \$39.95



# Infra Red

This is the device which makes all the noise when you walk into a shop. Mounts on one side of the door, and the reflector (which is supplied) on the other. It will sound when someone breaks the beam, or can be switched so it sounds for 5 seconds and then resets 240 volt operating. Will operate up to 15 metres, Builtin buzzer (extension buzzer can be added) Size 90 x 143 x 190mm Cat, LA-5120

\$129.00



Save your car for less than \$20 It's a black box with 12 digits on the top (like a calculator) and a flashing LED.

It looks very similar to the controller on a very exp car alarm (the one that guarantees your car won't be So with this sitting on your dash, would be thier think you have a high quality alarm, and move on

Can be used on its own, or to complement any existi alarm system. Use on cars, around the home, on boats etc. Easy to install, size 70 x 50mm, sticky tape already supplied on back. Includes alarm stickers. Requires 2 x AAA batteries (not supplied), Cat. SB-2375 \$1.95 for 2.



For those who couldn't be bothered with making up one of our Claytons burglar alarms. Pre-built, just connect black wire to negative, red wire

to positive and yellow wire to accessory terminal on the fuse box and it works automatically when you turn the ignition switch off. You don't even have to remember to

Supplied with huge round red bezel. Lens measures 18mm diamter. Complete with 2 alarm decals Cat. LA-5080

switch it on. \$17.95

# Alarm

Wire this in your house alarm to strobe when the alarm triggers. Gives visual warning as well as your usual available one. Operates on 12V DC drawing only 150mA. Blue in colour with screw mounting base. Flash rate about 120 per minute.





be-thief that there is an alarm fitted. Sticker does not refer to a specific alarm which creates further doubt. Cat. LA-5100 SIZE 72 x 32mm

95¢ each





For trucks, caravans, houses, offices and factories Where a larger and more prominent deterrent SIZE 5" x 3" Cat. LA-5102 \$1.95 each



**CONCORD 745 3077** 

## 116dB of

This incredible little piezo screame (measuring 57(L) x 33(H) - less (measuring 57(L) x 33(h) - less bracket) emits a 116dB waii. It sounds like a very loud canary. The sound at close range is almost unbearable! If you mount it inside your car and or alarms fires, a would be thief would probably be scared out of his wits I ideal for any compact high noise alarm application. Cat. LA-5255

VIRTUALLY UNBEARABLE **ONLY \$17.95** 



High efficiency two tone pulsating siren, Ideal for commercial/industrial use. 100dB SPL at 12V 200mA Cat. LA-5256

\$18.95 10+\$18.50



Similar to Sonalert. Earpiercing sound. Non inductive, operates from 5-15V DC, Ideal for almost all audio signalling applications.

10 or more \$7.95 \$7.65 each



This high energy piezo siren gives a 102dB SPL two toned warbled sound. Ideal for alarms in homes and offices as it looks unobtrusive. and omoss as it looks unoutrusive.

DC 6-15V @ 190mA. Size 105 x 105 x 45mm. Cat. I A-5260

\$22.50



If you want something different for your alarm than a siren try a bell. These operate from 12V DC and are 100mm (4\*) dia. Cat. LA-5270

\$14.95



Fully weatherproof. New unique voice coil construction ensures high dependability on full drive. Sultable for PA. intercom, security systems, etc.

\$13.95 10+\$12.95 ea



12V DC operated deafening siren wail. Super handy for audio signalling, security systems, etc. Current drain 500mA. Completely weatherproof. Attractive off white PVC finish Cat. I.A-5700 \$26.50



Louvred painted steel. Size for 5° horns or sirens. Special tamper switch on bracket, (Included) Cat. LA-5110 \$23.50



15 WATT 8 OHM - 5" x 8" Fully weatherproof. Rectangular plastic flare PA speaker. NOTE RUBBER RESONANCE DAMPER!!

Cat. AS-3182



This handy little solid state en 5-15VDC buzzer operates betw Used in many, many kits. Cat. AB-3452

\$2.75



This is an electro-acoustic transduce which contains no electronics and will transform AC voltages to sound pressure waves, it will also generate an AC voltage across its terminals when stimulated with a sound pressure wave.

10 or more

\$2.50 each

\$2.75





# Back-Up

Gebuine Mallory 'Sonalert' This device mounts near the rear of any 12V vehicle. When +12V is connected (i.e. from reverse gear switch) it will give the familiar beep-beep noise, Simple panel mount fixing. (Operates 4-28V), 69dB min - 80dBA

\$9.95

max. Cat AR-3442



## Adaptor

(Energy Authority Approved)
The ideal unit to run a burglar alarm Simply plugs into the wall. Has switch to select either 6, 9 or 12V at up to 500mA. (We strongly recommend battery back-up in case the thief disconnects the mains at your switchboard).

\$19.95

## **Amp Supply** This unit is approved, Ideal where

more current is required. Simply plugs into mains to provide safe DC \$29.95 Cat. MP-3016

**Power Supply** ideal for CB and workshop use where large amounts of power are required. DC connections via banana plug or screw terminals. Cat. MP-3017 dt

\$74.50

3.8V 2 Amp

Especially designed for house alarms. It will power the alarm as well as charge the standby Gel battery. It will also power car radio/stereo and CB radios off the mains Cat. MP-3018 \$52.50

# Kevswitch

Solid barrel type. 19.5mm mounting hole. SPST action. Supplied with 2 \$7.50 (two) keys. Cat. SM-1030



# Kevswitch

For high security installations. 4 pole 2 position. \$10.95 Cat. SM-1033



## Keyswitch -Cam Lock

Made from die cast zinc. Used in alarms, petty cash boxes, etc. Cat. SM-1029



Low cost spring loaded switch, simply make to frame (or earth) when pin is released i.e. by operating car or cabinet door, etc. 57mm overall, 12mm pin travel Cat. LE-8775

\$1.25 10 or more \$1.15 each



# Alarm

Switch mounts behind alarm module or bell or whatever you desire. If device is tampered with or pulled from the wall, the alarm will be triggered. SPST Cat. LA-5066 10 up \$2.40 each \$2.60



Glass encapsulated 125V 3 amp AC. Cat. SM-1005 \$2.25 10 or more \$2.05 each



Kev

Have you ever tried to get another It's very difficult to find blanks that are suitable. We now have available the exact blanks. No more worries! Cat. SM-1034

\$1.20 each

# Reed/Magnet

Used for roller shutter doors, tilting garage doors or any wide gap applications. Supplied with strong magnet, flexible conduit connector, etc. Cat. LA-5073

\$37.50



# Switch/Magnet

Now available from Jaycar Normally Now available from Jaycar Normally Open (N.O.) and Normally Closed (N.C.) on the one assembly, Sayes (N.C.) on the one assembly. Saves buying either one or the other. Powerful magnets, self adhesive or screw mount. Screw terminating. • SELECTABLE NORMALLY CLOSED OR NORMALLY OPEN. Cat. LA-5070

\$4.75 10+ \$4.50 ea



# Reed (N.C.)

Simply brilliant! Just drill a recess in your door or window and the magnet flush mounts to be "invisible". The reed switch segment is similarly mounted into the door frame or window frame and wired into your system. CAN'T BE TAMPERED WITH - PROFESSIONAL QUALITY



To protect windows. Simply stick in place and terminate with circuit blocks. 32 metres x 6.4mm wide

\$12.95



## **Blocks**

To suit window tape LA-5050. Self



This device is designed to be used in Normally Closed (NC) circuits, it will initiate an alarm when a vibration of considerable force strikes the protected surface (it is adjustable). Protect walls, ceilings, windows, sales, cabinets, etc. Self adhesive. Cat. LA-5068

\$5.95



Light figure 8 flex with trace, grey in colour. 14 x 0.14mm. Conductors 2. ideal for use with reed switches, sirens, IR detectors, etc.

25¢ metre \$19 per 100 metre roll

# Alarm

A "mat" of two plastic sheets welded around the outside to contain a SPST switch mechanism. switch mechanism.
When the mat is walked upon (or any part of the mat) a closed circuit results.
Between 8 and 10mm thick, it will safely fit under any carpet without shorting or

being shorted SIZE 800 x 520mm

Cat. LA-5002

\$24.95



· POLISHING · CUTTING . FNGRAVING . DRILLING · SANDING · GRINDING · MILLING · ERASING, etc

The Supertool is a compact, precision power toll which has a multitude of USAS

in and around the home, the office factory, workshop, etc. It is ideal for miniature and electronic engineering. educational projects and drawing been placed on the design of the casing to ensure optimum balance and ease of handling, with weight kept to a minimum. The on/off switch provides a switch lock for continuous running. The robust 12 watt motor operates at 10,000 revolutions per minute via a 12 volt plug pack which is supplied. The unit is supplied with 8 tools 6 graser sticks and a colle chuck with five collets. Supplied in carry case. 2 year guarantee. Cat. TH-1900

\$75.00

SPECIFICATIONS Operating Voltage Operating Curren Stall Torque Size (approx) Weight Chuck Type Power Supply

12V AC/DC 1 amp 10.000 rpm 141 x 42 x 31mm 98 nrams Collet 12V/24CV plug pack adaptor

# **Accessories**

POLISHING

3 steel wire polishing cleaning brushes for use on metal. \$17.95

DRILLING 4 high speed steel drill bits, 0.6, 0.8, 1 and 1.2mm for drilling holes in steel, non

ferrous metals, wood and Cat. TH-1904

\$8.50

GRINDING 3 grinding bits for smoothing, cleani and polishing Cat, TH-1906

\$12.95

### CUTTING 6 cutting/slitting discs

with arbor for cutting slicing, slotting, rout etc., in metal, plastic Cet TH-1910

\$14.95

**ENGRAVING** Diamond engraving bit for engraving glass hard plastic and

metals. Cat. TH-1908 \$22.50

**ENGRAVING** 

3 engraving/milling cutters for engraving on metals, plastics and ceramics Cat. TH-1912

\$10.95

DANIDDAVE

Handles up to 16 gauge meta up to 445mm wide. Make your own chassis, boxes, brackets, etc. Unique slotted upper clamping bar allows complex corner bends Gat. TM-3020





## Nibbling Tool

Born in the USA

How things change. You can now purchase from Jaycar the original American Adel nibbling tool, Due to price rises from Asian countries we've been able to direct import the original tool (which we sold 10 years ago) and sell it at the same price as the Asian

copy.

• Cuts holes - any shape over 7/16 Notches clearance for plugs and

wiring Trims undersize holes to fit parts

 Suitable for steel up to 18 gauge Aluminium 16 gauge, plastic and cop Cat. TH-1765 \$29.95

Replacement Punch Cat. TH-1766 \$21.50



in the Asian model.

•

This easy to use tool has plastic covered handles and is suitable for steel up to 18 guage. It will, how only cut in straight lines Also suitable for plastics Length 250mm Cat. TH-1768

\$19.95

Cat. TH-1769 \$3.50

> MUCH EASIER TO USE THAN CONVENTIONAL NIBBLING TOOL

Incredibly handy too for those moments when you need 4 hands, Will clip to and hold small nute holte washers, etc. fo fixing in place Cat. TH-1842

\$6.50

Top quality mini vice. \$10.95





· Strong suction base allows easy portability Single action lever to secure or release suction

Plastic jaws with rubber pads open out to 40mm Size (Approx) 85 x 65 x 60mm



That extra pair of hands when you Cat. TH-1982 \$12.75



## Steel pointed end

tweezers. Useful tool for holding parts for soldering holding small acrews in position Gat. TH-1750

\$2.95



Our wirestripper, nicknamed Tyranosaurus Rex, is far from extinct It's a great way to strip all sorts of cable without damaging the conductors. It's also a price

breakthrough Automatically adjusts to insulation diameter

One hand on Cat. TH-1824 <sup>"</sup>\$12.95



# Stripper

Our crimping tool is suitable for a

wide range of terminals, including ignition terminals. Tool also incomprates a wire cutter and stripper, ideal general purpose tool for the gloveb Cat. TH-1828 \$5.50



# Screwdriver

A 3mm blade ecrosadriums with a built-in mains testing neon Checks nower points, extension leads, fuses, etc Cat. TH-2048 \$1.95

This is a king size version of our Pearl Catch Incredibly handy tool for when you need 4 hands. Push the finger grip down at the top and 4 claws emerge from the bottom to grasp and hold small nuts, bolts.

washers or virtually anything. ures 610mm long and is flevible. The best thing about the claw is its price. It's even less than ourr Pearl Catch Cat. TH-1843

\$4.95

Will very easily fasten cable ties, and then cut off the excess. A very useful and handy tool indeed. Suitable for cable ties up to 12mm thick

\$14.50



6 piece Jewellers screwdriver set with swivel heads in a handy cas Cat. TH-2005 \$5.95



## **Alignment**

Set of 4 non-metallic tools for adjusting potcores, tuners, etc. Cat. TH-1800 \$4.95

## Screwdriver 200mm shaft Cat, TH-1804

\$3.35

This special fibre tip marker is great for one-off PCR production Etch resistant ink, Includes Cat. TM-3000

\$4.75

Unique side and top/bottom keying system allows you to use just a few or build a whole wall of drawers as your parts expansion dictates. Quality designed drawer slides will not "stick" or seize. Slide handle also takes

identity cards. Single or double drawers available SINGLE DRAWER

Cat. HB-6300 DOUBLE DRAWER Cat. HB-6301

\$5.50 each 10 or more \$5.10 each



Standard finish quality carbon steel nippers with leaf spring return. Durable vinyl handles. Cat, TH-1890 \$9.95



## 120mm

Similar to TH-1890 except larger overall and with captive coil spring return, Vinvl handles. Cat. TH-1891 \$9.95



A more compact version of the TH-1891 cutter except with Japanned (black metal) finish and leaf spring return. Viny handles. Cat. TH-1892



## **Pliers** 120mm

Quality carbon steel plier with classic style in-built wire cutter. Jananned nish to match the TH-1892 nipper. Cat. TH-1893

\$9.95

MAIL ORDERS-INQUIRIES 02 747 1888

## Desolderina

As reviewed by Electronics Australia. This unit has many excellent features. Clear body to see when it's full, incredibly strong suction power. Made from high density polycarbonate plastic, one hand, easy to use operation and an automatic tip cleaner action. There's even a hole in it to hang on a hook. Supplied with Telton



Jaycar proudly introduces a range of high quality Japanese made cutters from Offa. We are impressed with these products, and we are sure you will be tool ART KNIFE

Precision art knife supplied with not one or two spare blades, but a massive 25 replacements and a plastic storage box which houses both used and unused blades. Less than half the price of other art knives with comparable blades.

Cat. TH-1950

\$9.95

## SMALL UTILITY KNIFE

When the blade becomes blunt, snap it off! Housed in a metal (not plastic). Fully retractable blade, one hand operation. \$2.99

Cat. TH-1952



Supplied with two blades, one snap off type and one saw blade, which will saw timber, plywood, plastic, etc. Retractable blade.



### TOUCH KNIFE Measures only 40mm long

and 4.5mm wide, and is ideal for cutting fruit, opening letters. and parcels, cutting string, a million uses. Every handbag, nocket desk glovebox, keyring \$1.99 Cat TH-1955



## Low Cost

Up until now these have cost a fortunel

- CMOS SAFE conductive plastic Exclusive bent pin alignment guide
- in handle, 8 to 40 pins Ground strap can be connected One hand operation

### INSERTORS

CIT1416 8 to 16 pins \$12.95 Cat. TH-1808 CIT1820 18 to 20 pins \$13.95 Cat. TH-1810

CIT22-22 22 pins \$ 9.95 Cat. TH-1812 CIT24-28 24 to 28 pins \$14.95 Cat. TH-1814

CIT36-40 36 to 40 pins \$15.50 Cat. TH-1816







## EXTRACTOR

Deceptively simple looking device. One piece metal construction. 8 - 40 pins. \$ 4.25 Cat. TH-1818



Used for holding small drill bits reamers, etc. Great for enlarging undersized PC holes.

\$16.50



Holes too small? Ream 'em out! This heat-treated steel tool will enlarge holes from 4mm to 22mm.

Also ideal for removing swarf from holes. Includes tommy Cat. TH-1844

\$15.95

Just the shot for PCB work. 12V DC operated from external power pack. 1,2mm chuck canacity. Supplied complete with 1 mm drill hit

Cat. TD-2450 \$19.95

DRILL BITS FOR PCR WORK Cat. TD-2408 0.8mm Cat. TD-2410 1mm \$2,20 each

Set of 8 handy keys complete in plastic wallet. Sizes: 1.5, 2, 2.5, 3, 4, 5, 5.5, 6mm Cat. TH-1840



\$4.50

Whilst Adcola equipment is very high quality, the fact that it is locally made is now a great benefit. The downward movement of the A\$ has made Adcola products very competitive - even against low cost Asian imports! We therefore strongly recommend that you seriously consider Adcola products - especially their olled soldering equipment before you buy inferior imported nonducte

### THE HEART OF THE TEMPERATURE CONTROLLED SYSTEM

The unit will power either the CT-6, CT-7 or desoldering pencil. The E024 accurately monitors a temperature element wound in each of these irons. An electronic control circuit then meters power to the pencil in accordance with the electronic control circuit them meters power to the pencil in accordance with the temperature selected on the front panel of the EGEA. The temperature is confirmed to the EGEA. The temperature is confirmed to the temperature is confirmed to the temperature in the temperature is confirmed to the temperature in the temperature is confirmed to an arranging of segmes centifyated Power is supplied to the pencils via a "auto crossing" controller. This effectively means that power to the pencils is evidence on and of they all the point on the AGE power supply where the witting passes through zero. By switching power in this sophisticated way spikes caused by commutated AC are avoided. (The major competitors eletro-mechanical switch operates randomly at ANY POINT on the ACII

switch operates randomy at ANY POINT on the ALG An extra special electrostatic shield is wound between the primary and secondary of the power transformer to virtually eliminate mains-borne spikes - no damage to MOS devices! To further reduce static voltage effect an optional auxiliary ground lead is provided to earth the equipment to be soldered to the same potential as the soldering equipment. In this way the effective tip EMF is limited to around 10 millivoltal This is far below the damage level for all MOS devices of course. We believe that the E024 unit has by far the best static control in its class! The E024 is believe that the COCH UNIT has by fair the Dest State. Control in its Ceaser Time supplied with generous mains cord, soldering guide, technical instructions (Including internal schematic and parts list), soldering iron stand, tip cleaning



## Soldering Irons to Suit

## 40 WATT

The CT-6 is a light-weight pencil with a very high capacity heating element for very low thermal inertia. It is supplied with a #20415.1.5mm tip as standard, Also supplied with a #20415.1.5mm tip as standard, Also supplied idard are: burn-proof silicone rubber cord, thermal shield and plug for connection to E024 controller un

\$47.95 Cat. TS-1478

#20407 0.7mm chisel point

Cat. TS-1480

80 WATT



DESOLDERING TOOL Type CT-207. This is similar to the pencils above except that it has a holl temperature controlled tip (replaceable) which is connected to a vacuum bulb located on the handle. The bulb is placed conveniently so that it can be depressed by the operators index finger.

\$79.95 Tip for desolder tool Cat. TS-1477 \$14.95 Spare tips for the Adcola CT-6, CT-7, S-30 & S-50 FOR CT-6 AND S-30 IRONS

#20407 0.7mm chisel point Cat. TS-1484 \$5.95 #20415 1.5mm chisel (standard) Cat. TS-1485 \$5.95 #20430 3mm chisel point Cat. TS-1486 \$5.95 FOR CT-7 AND S-50 IRONS #50407 0 7mm chisel point #50425 2.5mm chisel point

Cat. TS-1488 \$6.95 Cat. TS-1489 \$6.95 Cat. TS-1490 \$6.95 #50430 3mm chisel point



### START WITH A GOOD SOI DERING IRON

One of the best soldering irons money can buy. The Weller WTCPS uses an advanced temperarute control system based on the Curie temperature of a mag advanced temperature control system cased on the curre temperature of a mag-built into the fip. To change temperatures, simply change the fip. Low voltage transformer isolation means complete safety and the design ensure minimal leakage voltage at the tip - makes the iron perfectly safe to use with static sensitive IC's. Station comes complete with iron, tip, sponge and integral tip storage tray. The base houses the transformer, power switch and a stand for the

fron.
The ultimate for the professional or serious hobbyist. Cat. TS-1000

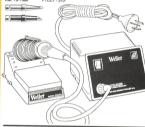
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### SPARE TIPS

Screwdriver 2mm tip double flat Cat. TS-1352 PT6A - 315° PT7A - 370° Cat. TS-1362 Cat. TS-1372 PT8A - 430° Spade 3.2mm tip Cat. TS-1360 PTCC7 - 2704

\$9.95 each





New generation soldering iron. Why bother with rechargeable batteries or chargers any more. The Portasol needs no cords or gas bottles. All you need is a can of Ronson type Butane cigarette lighter fuel. A full tank will last about an hour, and it refille in enconde Portasol has an adjustable dial. You can vary it from the equivalent of 10 to 60

### A BRILLIANT NEW CONCEPT IN

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 Made in Ireland Cat. TS-1420 \$42.95 DOUT-AND? TIPS TO SUIT • 1mm TIP Cat. TS-1421 \$15.95 • 2.4mm TIP Cat. TS-1422 \$15.95



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Designed for general purpose soldering. This kit includes a 30 wat 240 volt soldering iron a quality metal stand with sponge, a length of solder and a roll of solderwick

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This great iron has all the features of se costing a lot more. · 240 volt operating

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 High efficiency patented heating Iron clad chrome plated, long life interchangeable tips Cat, TS-1550



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S-30

A high quality 12 watt for general hobby use idles at the correct work. Tips will not seize in iron. Uses same tips as CT-6 Cot TP 1403 \$34.95 S-50

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Replacement qiT

Instrument tip for Micron 30 watt, Arlec orange handle iron and Hotstick irons Cat. TS-1453 \$4.95 Temperature Adjustable

Excellent 240V iron acrowdriver termera adjustable between 250 degrees C and 450 degrees C enabling very delicate sold on low settings with surprising heat energy reserve on maximum

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**GORE HILL 439 4799** 

# VHF/UHF Mobile TV **Antenna System**

The "Mini-State" antenna system consists of a wide band YAGI type antenna on a turntable inside a fully sealed housing. An inbuilt masthead amplifier boosts the VHF band by 24dB and the UHF band by 12dB. A matching transformer changes the impedance from 300 to 75 ohms

The sealed rotor assembly is connected to a wall plate via a 15 ft (4.2 metre) length of coax with 3 conductor rotor wire. The wall plate also has a coaxial outlet socket, a socket for a hand held rotor. controller (which is also supplied), a 12V cigarette lighter socket (for 12V TV's etc) and an on/off switch for the masthead amplifier power.

for the mastnead ampinier power.
The antenna housing weighs less than 3 kilos, is 533mm in diameter and 178mm thick. It presents a low windload and is very attractive compared to ordinary TV antennas.

The Mini-State enables you to rotate the antenna to the signal source from the comfort of your chair to minimise ghosts and maximise signal. It is ideal for boats, caravans, outside broadcast vehicles, RVs even at home (if you don't like ugly TV aerials). It is NOT cheap but qualify never is. It is a fine place of equipment which will give years and years of trouble free service. The complete Mini-State systems nsists of the enclosed weather-resistant antenna

matching transformer, amplifier, coax/control cable wall plate and hand controller, it operates from 12V

Cat. I.T-3122

\$399

HAND CONTROLLER

MAST NOT SUPPLIED

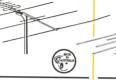


Designed for areas where ghosting is bad Cat. I.T-3150

\$109.50

Suitable for most VHF and UHF applications Triban-antenna for VHF channels 2 - 12, FM channels and cations Triband UHF channels 21 - 69. Exclent performance for medium to poor signal

areas. Cat. LT-3145 \$89.50



For those who want to receive VHF as well as UHF. This is the one you need. Suitable for metropolitan areas. Use LT-3026 balun for coaxial. Cat. LT-3160

\$72.00



This UHF aerial is designed for Band 4 reception for all capital cities. Use with a diplexer to combine with VHF antenna. This antenna has ten elements and a reflector which picks up more signals and reflects them back to the aerial. Cat. I.T-3180

\$59.50



Band 4 and 5

A combination aerial for good re \$52.00 Cet 1 T-2175



#### Stainless Steel Mast Mounting Bracket

Will accept up to 40mm dia, mast, Flanged to bolt onto \$19.50 Cat. LT-3124

280mm Wedge Type Vehicle Mount Lightweight but strong aluminium (#Bg) mount. 8 vehicle fixing holes. Bolts on bottom of antenna. Cat. LT-3126 \$49.95 30ft Coax/3 Wire Rotor Cable

A 9.5 metre length of 75 ohm coax cable with connector fitted each end and the 3 wire motor contri in the same cord. Cat. LT-3127 \$49.95

\$49.50

If you need bands 4 and 5 you don't need to buy two aerials. Bands 4 and 5 on the one antenna, what a

aerratis, Deine - un-great idea. FEATURES: Excellent gain -8dB, inbuilt balun, good directivity - front to back ratio 27dB, Gold anodised for long life, simple to install, European made Cat. LT-3178



NOT TO SCALE

8

**CONCORD 745 3077** 

### VHF Outdoor / Antenna

If you don't need UHF this is the antenna for you. Excellent gain and directivity for areas with moderate signal strength, 300 ohms, use LT-3026 balun with coaxial. Cat. I T-3165



The ultimate indoor antenna - built-in mixer for UHF/ VHF/FM - wide frequency band from 40MHz to 890MHz. Directional fine tuning possible with variable direction inner reflector - essy to mount - 75 ohm impedance with coaxial cable and plug.

Cat. LT-3130

\$31.95



# UHF Set-Top

Designed for those who for one reason or another cannot have a rooftop antenna. Top quality in performance and design for those in a good UHF signal area. Easy adjustment for horizontal or vertical polarisation. Complete with lead and plug. Covers both band 4 & 5. Cat, LT-3140

\$21.95



na mounted in a sturdy cabinet which sits on your TV set. Telescopic rods are adjustable for maximum efficiency. Cat. LT-3110

\$21.95



For prime reception areas, sits on top of your TV. Popular spiral design. 300 ohm cable supplied. Cat. LT-3100

\$7.95



# In-Line

This great amplifier will reduce the loss from splitters and long cable runs. It can be used with a VCR or antenna. 10dB gain. 240V power supply included. Cat. I T-3815

\$46.50



# **Antenna**

This Australian designed VHF/UHF/FM Indoor antenna signal amplifier is a must for poor recent arreas. The unit has a VHF gain of -28dB and on UHF -37dB. Connection into your TV/antenna system is via 75 ohm coax input and output sockets. Comes complete with approved (CS3069N) power supply - nothing else to buy.

Cat. LT-3818

\$99.95



If you have a real problem with TV reception at your weekender this will fix it. It will boost VHF a massive 24dB and UHF 22dB. That's about 4 times the smaller units available

Complete with 240V adaptor. \$99.50 Cat. LT-3820





Simple ribbon type antenna (dipole) gives good performance in striong signal areas. 300 ohm termination. Cat. LT-3002 \$2.50



FOR ALL YOUR TV ACCESSORY **REQUIREMENTS - COME TO JAYCAR** 

This LIHE/VHF and FM amplifier incorporates a 2 way splitter and covers all Australian frequencies. 2 x 6dB gain. Power supply supplied to run from 240V AC. to run from 24 Cat. LT-3810 \$49.95



Chimney Mount

Steel straps wrap around the chimney to securely support mast section (Use LT-3230, not supplied). Cat. LT-3225



Bargeboard

Simply bolts onto bargeboard (belogutter) or other support. 1390mm

long, galvanised steel construction Cal. LT-3200

Mount

\$11.95

Wall

Mounts Two lengths bolt onto wall and space antenna to clear eaves. Use with LT-3230 mast section. Galvanised steel,

Cat. LT-3210

69cm (27")

Cat. LT-3220

uding U-bolts. 28cm (11")

\$7.25

\$10.95

#### Gutter Mount Bracket

A handy small bracket to mount a TV aerial on a gutter plus 10 metres of 300 ohm cable. Cat. LT-3194 \$12.50

Mast

Section 2.4 metres long galvanised steel mast Cat. LT-3230 \_ \_ \_ \_





Standoffs Keen cable supports away from gutters, downpipes, etc., for best STRAP TYPE

To support cable away from mast. Cat, LT-3252 \$1.35 ea 10 or more \$1.15 each



#### U-Clamp/ V-Block

For securely clamping mast sections, mounts, etc., at right angles. Cat. LT-3235

\$2.20 ea 10 or more \$2.00 each



Designed to match modern electrical s - white in colour. SINGLE Cat. LT-3023 \$3.75



DOUBLE Cat. LT-3024 \$4.95

# Cable from aerial can be run to this

putlet, then continued on to anothe one. It has built-in splitter as well as wall socket. Standard power point size. Cat. LT-3025 \$6.50



Standard white mini wall plate with a cutout for either a 75 ohm snap-in insert or 300 ohm \$1.95 Cat. LT-3030



300 Ohm Insert \$2,20



75 Ohm Insert \$2.65



# Tuneable

Enables you to watch UHF channel 28 SBS on a VHF only TV Tuneable UHF bands 4 and 5 to VHF channel 1, Has built-in amplifier to sesure that there is no signal loss. Power supply included

\$99.00

Hammannan Sar

Loads to connect between TV and wall socket. TV and video. ninated with standard 75 ohm plug or socket as used on TV's.

PLUG TO PLUG 1.8m \$3.50 Cat. AV-6580

PLUG TO SOCKET 1.8m \$3.75 Cat. AV-6582

PLUG TO PLUG 4.5m \$6.95 Cot AV-6584 PLUG TO SOCKET 4.5m \$6.95 Cat. SR-6585

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Essential for matching 300 ohm antennas, TVs and ribbon with 75 ohm coaxial and TV connections

#### Outdoor

Aerial type with plug. Weatherproof balun connects 300 ohm TV or FM Short length of 300 ohm ribbon with

spaced lugs. Cat. LT-3026 \$3.75



#### Indoor Balun

Connects 75 ohm coaxial via screw connections to a 300 ohm TV o FM tuner. Short length of 300 ohm ribbon with spaced lugs





# Balun

Lets you connect 300 ohm ribbon to a 75 ohm TV set. Screw terminals for input, coaxial plug output. Cat. LT-3021





#### Indoor Balun

75 ohm socket for input and 300 ohm ribbon cable output Also allows connection of TV



Essential for operating more than one set from a single antenna - don't try wiring them without one - it doesn't work

#### 300 Ohm 2 Way

Screw connect Cat. LT-3006



\$5.95

#### 75 Ohm 2 Way

Screw conne Cat. LT-3010



75 Ohm 4 Way

Scronnections Cat. LT-3012 \$9.50



This unit plugs into a 75 ohm wall socket and then either two TV's or one an FM receiver can be plugged in. Cat. LT-3020

\$5.95



For those who want the best High quality inductive splitters. If you need a splitter and you have long runs. or you are in a poor reception area you need a better quality splitter. Screw clamps for easy wiring

SPECIFICATIONS: Insertion Loss Loss

2 WAY 3.5 7 4 WAY 6.5 8 measured as dB loss VHF UHF 20 20 2 WAY Cat. LT-3007 \$15.95

4 WAY Cat. LT-3008

\$18.95



# Computer

Allows you to easily switch between tw aerial, computer, video game or VCR.
The output has a small length of coax
and a 75 ohm standard plug. Input
sockets are standard 75 ohm type. Grab one for when you will need it Cat. LT-3018

\$5.95



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This device allows you to connect 2 antennas (UHF and VHF) to the one socket on your TV. Output 75 ohms \$10.50 Cat. LT-3013



Mounts directly onto TV mast. Connect two aerial cables (UHF and VHF) to diplexer, then only run one cable down to TV. Cat. LT-3014 \$11.95



Will filter signals from TV reception as well as herringbone interference patterns giving a better picture all round. Supplied with a 75 ohm coax socket in

and out. Cat. LT-3015 \$7.95





Designed for the service technician engaged in radio, television or audio troubleshooting and repair this book painlessly expands the technicians expertise into digital electronics. Beginning with digital logic diagrams, the reader is introduced to basic adders and subtracters, flip-flops, registers and encoders and decor ory types are also discussed in detail 392 pages, size 140 x 216, softhound

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ical books on the market, this cookbook gives you a solid understanding of CMOS technology and its applications to real world circuitry. The author explains how CMOS differs from other MOS designs, how it is powered and what its advantages are over other con structions. A mini catalogue is included which lists over 100 devices, giving their plnouts and application notes. The final chapter shows you how to put all the previous information together to construct a number of large scale working instruments 416 pages - 140 x 216, softbound Cat. BS-0518

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lan Ridpath was born in Canada although he and his family now live in Auckland, New Zealand, He has written articles for "Q.S.T." Magazine, "Break-In" and Ame Radio Action.

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#### Rover Negative lon

# Generator

Yes, we've made another scoop purchase. The importer contacted us with his dilemma and we purchased a quantity of these fully imported fully guaranteed air purifiers. These units are 240 volt operated, draw about 1/2 watt, deliver about 250 billion ions per second, and cover about 25 square metres. It's even supplied with a Tester PC board and spare needles. If you've ever wondered about negative ion generators, this MUST be the time to buy one. These were selling for about \$80. Jaycar has a limited quantity available for: Cat. YX-2905



Bright red 'torch' style unit. Polished glass lens 82mm in diameter. Focal distance 188mm, Uses 2 x 'C' cells for long life. Weighs 275 grams. Cat. QM-3510

\$14.95



### **Hobbyist** Motors

3V.Small motor, suited for experimenters and hobbylists. Magazines 40 v 40 v 35/Hlmm. Supplied with nting plate and lead wires. Quality Johnson Brand.

SPECIFICATIONS: • Operating Voltage: 1.5 - 4.5V • Operating Torque: 26.5gm/cm • Current Drain: 1 amp • Speed: 5,100 rpr • Output: 1.35 watts Cat. YX-2700

\$3.95 10+ \$3.50 ea



6V. Triis motor measuring 38 dia and 35mm long (plus shaft 10mm long) has high torque, modest current consumption. It is ideal as a cassette deck replacer motor. It is very high in quality - the motor itself is rubber mounted into an outer case, with so power leads. Ideal also for toys, robotics, etc. 2400 rpm. No mounting plate.

\$1.95 ea 10+ \$1.50 ea

#### Motor/Gearbox Kits

Each of the kits shown below contains a motor with press-fit brass cog, gearbox housing, 3mm x 110mm steel driveshaft, 2 intermediate shafts, 7 gearwheels

and 6 nylon bushes.
The motors will run from a source of 1.5 - 4.5 volts DC and depending on load consume between 200 - 800mA A typical gearbox arrangement is shown in the exploded drawing.

Two sizes are available, YG-2710 with a (small 20mm dia.) motor and the YG-2712 with 25mm motor with higher torque and cilite bearings. All components (apar from the motor) are UK or French made. SMALL MOTOR

Cat. YG-2710 \$14.95

LARGE MOTOR Cat. YG-2712 \$18.95

REDUCTION TABLE YG-2710 1.5V rpm 3V rpm4.5V rpm 3 6 10 24 32 50 74 96 180 230 900 1700 2200





### poor joints, solder bridges, etc. Model 9700

\$29.95

**SAVE \$50** 

Hand-Held

Magnifiers from tasco

Pocket illuminated microscope. This convenient magnifier will operate at 30X mag. It will easily show the individual process colour dots of printed colour \$24.95 Cat OM-3520

We now stock a fantastic range of low-cost (BUT HIGH QUALITY) hand held magnifiers from TASCO company. All models are self illuminated, powered by

penlight or C batteries for maximum convenience.

They are great for checking PCB cracks, dry joints.



# Model 9536

100 x 50 lens with bifocal inset. Illuminator hinges out from the case and closes flush. High quality. Focal





Simply cut a 120mm hole in a bulkhead or deck - or whatever - and the Sunvent will remove stale damp air and cut down mildew growth. It will extract dangerous LP gas or petrol furnes safely as the motor is sealed. The Survent is at its best in bright sunlight but will work about 35 cubic metres of air every half hour in good conditions. Supplied with cover to turn off cells and

stop all airflow. Caravans · Port-a-Loos Greenhouses Sheds

Holiday homes · Weekenders etc Cat. YX-2500

\$49.95



LESS THAN HALF THE PRICE OF FUROPEAN MADE





### **New Clock** Movements Pendulum Driver

This small module measuring 130(L) x 60(W) x 35(D)mm uses 1 x AA cell. It causes a suspended arm within the module to swing back and forth. A suitable pendulum can be attached to the bottom of the arm. (Note; pendulum driver is NOT a clock). Battery (alkaline) will last over a year. Cat. XC-0110



### Quartz Movement With Switch Contacts

This is virtually identical to our XC-0100 standard ement except that it has a set of switch contacts that close every hour. These contacts can be used to trigger the "melody modules" see elsewhere this page) \$16.95

Cat. XC-0105



### MD-01 Melody Module 12 Sonas

This module consists of 2" speaker with electronics mounted on the speaker frame. A single AA battery holder is attached. When the switch wires are noise is attached. When the switch whos are shorted the module plays one tune from its repertoire of 12. It cycles through the 12 until it comes back to the first. (Typical tunes are nursery

rnymes). Cat XC-0115



### MD-02 Westminster Chime

This module (similar in appearance to the MD-01) reproduces a Westminster chime when activated. It is also supplied with a neat little "test button" switch. Cat. XC-0120 \$14.95



#### **MD-202 12 Songs** Plus Chime

If you hear "Oh, give me a home where the Buffalces roam..." you know its 3 o'clock! After each tune a sombre chime rings out once for each hour of the day. Supplied with test switch. Really nittyl Cat. XC-0122



## "Twinkle, Twinkle Little Star" Module

This tiny module measuring 45(L) x 30(W) x 4mm (thinli) is the module that you find in those crazy musical Xmas cards. When tiny spring switch co are closed it plays "Twinkle, Twinkle Little Star". Absolutely useless and eventually annoying. Great fun to build into anything ghastly! Cat. XC-0130 \$3.95

# **LCD** Thermometer Travel Alarm Clock

It's about the size of a credit card, measures 85 x 55 x 8mm thick and is supplied in a handy wallet Ideal for travelling. It has an alarm which is LOUD enough to wake even a heavy sleeper AND it has snooze function. It's easy to set the time and alarm time. Display temperature in either Celcius or

fahrenheit. Uses one LR-44 battery Eastures: Easy to read • Temperature in °C or °F • Loud alarm · Snooze setting · Easy to set · Small size · Carry wallet . Quartz accuracy \$29.95

Cat. XW-0392



# **Digital Alarm** Thermometer/Clock

This great new product has a built-in term sensor, so displays the temperature in both Celcius and Farenheit. It also tells the time. An alarm will sound when the temperature falls below or above a preset temperature. Handy pocket size, measures 53 x 82 x 22mm. Temperature measuring range -20°C to 70°C -0°F to 160°F. Use one AAA battery. Cat. XW-0390

\$27.95



### **Quartz Clock** Compass

This great small product has many applications. It's a quartz digital clock and a compass in one small, handy size. Cat. XW-0250 \$5.95

#### **Quartz Crystal** Clock Movement

Very compact Self starting one-second stepping motor has strong

 Powered by 1.5V AA battery that lasts for one year . ± 15 second/month accuracy 56mm square, 15mm deep

Fit your own custom clock face, Great for novel applications such as fitting to pictures,

SUPPLIED WITH 3 SETS OF HANDS \$12.95

Cet XC-0100 Includes sweep second hand



mbly example for quartz clockwo



# Stopwatch

Attractive all weather stor watch as well as a 5 function watch, (Day, date, etc). Complete with a generalis length of knitted lanyard, Very easy to use. Quartz greater accuracy Cat. XW-0380

SAVE \$5 on

1987 Price - \$11.95

# 30 Metre Quartz Digital Watch/ Stopwatch

seconds, months, date, lap time, 24 hour and alarm. Cat. XW-0305

\$12.95



# **Robotics**

# Economy

This unit is roughly 150mm diameter and 210mm high. It is programmable via a 8-key membrane keypad on its 'chest'. Programmable actions include: music sound, flash 'eye' (light on head), turn in either direction, circle, etc. Up to 18 consecutive entries are permissable. This robot also features a very effective tactile bumper switch and movable arms which can grip small objects.

Uses 4 x AA & 1 x 9V cell (not supplied)



Cat YR-1020 \$49.95

# Value Compurobot

A very sophisticated robot for the price This unit which measures roughly 150mm diameter and 165mm high This microprocessor controlled unit is progammed via a 25 key keypad on the 'head' of the robot. Up to 48 separate routines can be entered into a program. The robot has a multi-speed gearbox, can travel in 4 separate directions as well as at angles and curves. It has lights and can make sounds Hundreds have been sold to primary

schools throughout Australia. Requires 4 x AA & 1 x 9V cell (not included). Cat XR, 1024

\$69.95



### Performance Compurobot II

This highly sophisticated robot has it all. The robot is programmed via a wireless infra-red hand held controller with a 25 key keypad. A very comprehensive 30 page instruction manual is also provided. Up to 64 program steps can be accommodate in the robot memory. The unit will go in any direction as well as make a number of different noises, flash lights, etc. it begs every time a key entry has been entered so that it verifies entry. The robot has two (non-motorised) mechanical arms to actually carry a payload. A crayon attachment is also provided to enable the robot

When the IR controller is not in use the robot has a holder to carry it about Another very valuable feature is an auto-turn-off facility, which conserves battery life. A highly recommended product. Measures 230(H) x 210(W) x 175(D)mm. Rugged ABS plastic case. Uses Japanese quality Mabuchi motors. Batteries

\$129.95

required 4 x C (for robot); 4 x AA (for controller). Cat. XR-1028



#### **FM Wireless** Intercom

The see great for horses, between prings/workshop/office and house, between norm, grindparents spatials, near door neighbours set. The bubble monitor control above you to pot one in the differen come with transmiss controlled, being you between offices - the possibilities are endless. To connect the intercorns, just pigs 26 V/OV power points and they stratest through the cable already off. The only office - the possibilities are defined to the properties of the properties of

\$89.50 per pair



#### 2 Station Wire

# Intercom

Those intercome are hattery operated or can be used with our 240V adaptor (Cat. MP-3006 \$\tilde{Q}\$\$ \$14.95). Wire is supplied to connect all units. Built-in call tone, so any station can contact master, even when

master is switched off. Cat. Al-5502

> \$29.50 per pair



### Ultrasonic Pest and Insect Repeller

PESTREPELLER is effective in controlling mice, rats, roaches, ants, flees, crickets, silverlish, waterbugs, moths and most other common pests. Laboratory research has shown ultrasonic sound waves attack the auditory system and nervous system of most common pests causing them pain and discomfort 130dB's of sound waves are out

of the range of hearing of humans and most household pets such as dogs, cats, fish

Dimensions 100 x 90 x 80mm Power supply adaptor supplied 240V AC/9V DC

Frequency range 30kHz to 65kHz variable Output level 130dB Cat. YS-5510

\$39.50 **BRISBANE 07 393 0777** 

#### Jaycar JVE-1 Video Detail Enhancer

What is a Video Enhancer?

What is a Vision Enhancer? It is a black box that connects between two VCR's to improve the quality of a recording of an original tape. No tricks, just sound engineering practice. They have been around TV studies for years and are now being but lim to the latest VCR's. The Jayear unit was designed by a staff member of a well known Australian University and we have bitten the boulted by making them in Australian.

The unit works well (some say better) than units costing up to two hundred dollars or more. It is the only 625 line 50 frame PAL-D Australian designed and made unit available that we know of. The unit features enhance, cora/garma control and bypass switch. It will drive up to 3 VCR's at once with no degradation and works well as a Video Distribution Amplifier as well. It is supplied with excellent documentation, is not a kit and is guaranteed for 3 months.

#### SPECIFICATIONS

- Maximum enhancement not less than +8.3dB @ 2MHz
- Enhance disabled (bypass) response, DC to 5MHz, -0.5 +1dB
- Colour subcarrier 0dB notch frequency, tunable to 4.43MHz, ±0.5dB, all settings Amplifier group delay, less than 0.075uS
- Signal handling capacity not less than 1.35 volts P-P (sync. is clipped first)

   Power 12V AC @ 100mA
- Controls: on/off, enhance, enhance/bypass switch, core/gamma control
- · Input connector RCA socket Output connectors BCA x 3

#### DESIGN FEATURES

- · A unity gain notch at the colour subcarrier frequency, whose purpose is to previent chrominance to luminance errors at high enhance levels
- A closed loop configuration with lead tag compensation to achieve stable, well defined gain 

  DC coupling eliminating large capacitors in series with the video signal and 
  achieving DC response for applications requiring it 

  Low output impedance prior to termination resistors, enabling up to 3 outputs to
- exist and be used or left unterminated A level dependent closed loop response or gamma control ('Core')
- Clip on negative going signals at -67 volts into 75 ohms to prevent sync. errors

#### \$79.95

#### 12 VOLT AC PLUG PACK POWER UNIT



#### Kev Fob Transmitter

This unit measures 60(L) x 34(W) x 14(D)mm, it is supplied with a vinyl slip wallet (which is pretty useless). It is powered by a 12V cigarette lighter type battery. You can custom code it with from 1024 combinations. Instructions supplied. Works the LR-8810 Remote Control Receiver. Cat. LR-8814 \$27.95

# Remote Control Receiver

The hand controller LR-8814 will latch this unit on and off with alternat depressions of the button. A relay (SPDT) with 5A contacts is actuated. This relay can be used to control solenoid door locks as well as no entry delay burglar alarms, etc. Dimensions 122(W) x 90(D) x 30(H)mm.

> \$54.95 Cat. I R-8810



#### Ultraviolet **FPROM** Eraser

This is the proverbial answer to a maidens prayer! It's all very good being able to program EPROMs easily but how do you ERASE them quickly and safely. You can put them out in the sun for an undertermined time or use a special high power UV tube in an uncontented 20W fluoro batten. You could also end up with a white

walking stick

walking sitck! If you need to regularly erase the contents of EPROMs (even NEW EPROMs could be corrupted with random data) then this is your most cost-effective solution. It will serase yo to 9 x 24 pin devices in complete safety to your eyes and your chips, in around 40 minutes for 9 chips (less for less chips). This US-designed product has a special safety conductive-foam thof greatward has a double insulated design for your safety

We are very excited about this product and we are sure you will be too.

Erase up to 9 chips at a time

Chip drawer has conductive foam pad

Mains powered High LIV intensity at chip surface ensures thorough erase Engineered to prevent UV exposure

Long UV tube life
 SPECIFICATIONS

Operating Voltage Power Consumption UV Source Wavelength Tube Life

Weight

240V EOU 8 watts 9 to 24 pins 253 7nm 6.4mW/cm2 3000 hours 670 grams

\$99.50 Cat. XE-4950 Replacement tube Cat. XE-4951 \$19.95



### Remote Control Accessories for Operation of Car Alarms, Locking, etc.

This range consists of a key-fob type transmitter (Australian standard 304MHz, remote receiver and door lock actuators

# 12 Volt Door Lock Actuator (Master)

This spenoid device is especially designed for after-market installation. It is made of durable materials (fibreglass reinforced body, acetal resin gears) with an operational life of 30,000 times. Requires 5A @ 12V. Will give 2.8kg thrust (max) over 23mm. Fitted with a 5A microswitch which can be used to power slave actuators. Supplied with comprehensive kit of hardware fittings to connect to door lock hardware. Dimensions 145(L) extended body x 28(W) x 62(D)mm

\$29.55 Cat. LR-8816

12 Volt Door Lock Actuator (Slave)

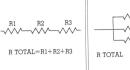
Similar to above but with no microswitch Cat. LR-8817

\$24.95

#### Resistors



Resistors in Series



# Ohm's Law

n resistance, voltage and current The relationship between is defined by Ohm's Law. The formulas are: E = I x R

- ī - F/R = E/I R
- where E = volts R = Resistance in ohms I - Current in amos
- An easier way to remember Ohm's Law is by this diagram. Just cover up the value you are looking for, and the



#### CAPACITOR Capacitors in Parallel MAGNITUDES 1uor 1000nF 1.000,000 pF 0.1uF or 100nF 100,000 pl C110,000 pF 0.001uF or 1nF 1 000 pl as is (100pF) 100 pF 10 pF as is (100F) as is (10F) Capacitors In Series C TOTAL=C1+C2+C3 C TOTAL

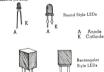
Resistors in Parallel

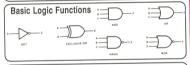
Rl

R3

#### **LEDs**

ight emitting diodes are a special type of diode which lights up when a voltage is applied. They are available in red, green, yellow, orange and in various sizes and shapes. LEDs are polarised, and can be damaged by reverse ns. As a general rule, the longer lead is the poektive (Anode)





### Standard Centronics Printer Plug Connections

Stariu	ara centrorne	o i illitor i lag o o lillion
Pin No	Signal Signal ground	
2	Data bit 0	
3	Data bit 1	m 00000000000000000000000
4	Data bit 2	- 0000000000000000000000000000000000000
5	Data bit 3	10
6	Data bit 4	<sub>გ</sub> იიიიიიიიიიიიიიიიიი იინე/
7	Data bit 5	
8	Data bit 6	
1	Data strobe	
10	Data acknowledge	
11	Input busy ready	

LEDS				
COLOUR	RED	ORANGE	YELLOW	GREEN
VF (Typical)	1.8V	2.0V	2.1V	2.2V

Table 1: Typical forward voltage characteristics of standard LEDs with forward current set at 20mA.

#### OPERATING DIRECTLY FROM 240V AC MAINS



current of approximately 16mA.





OPERATING LED FROM ACV AS AN INDICATOR  $R = \frac{0.5}{100} (V_S - V_f)$ IN914

The two formula shown should be used in conjunction with Table 1 to determine the required series resistor to operate LEDs at 20mA.

# TO: JAYCAR Pty Ltd P.O. Box 185 Concord 2137

<b>IO</b> RDI	ER	<b>FORM</b>	Date in	Date Out	No:	e a quer	quote this number	Pricer	Assemble				
Deliv	ery Inst	ructions											
Heavy & Bu	Date Phone  Current Address, Please Print												
	MAIL (see table below)     AIRMAIL (add \$4 to P&P value)												
	☐ ROAD FREIGHT					Name							
(\$13.50 anyw	here in Aust	ralia up to 40kg)	Address										
OVERNIGH (\$8 anywhere													
☐ TRANSIT II													
(against la			Postcode										
(\$1 per \$1	-	value)	Have you	bought by	Mail Order	from us b	efore? YES []	N	0 🗆				
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If you are using credit card	ds be sure to inc	lude your full address.											

#### MAIL ORDER INFORMATION

PRICES: The prices in this catalogue are true and current at the time of going to press.

Most of the information in this catalogue is valid for a considerable

amount of time.

Naturally, there will be factors beyond our control which will change our prices - either up OR down. We reserve the right to change our prices - either up CH down, we reserve the right to change prices when necessary without notice. If you order goods and the prices have changed the new price will be shown on the mail order form.

be shown on the mail order form.
If you are dissatisfied with the new price, please return the IN ORIGINAL CONDITION for a full refund or credit (please IN ORIGINAL CONDITION for a full refund or ore specify) less P & P.

For more information see "Satisfaction Guarantee"

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We make every effort to ensure that goods in this catalogue are enabled by the distribution date. Much 1968, it is slavely select however, to dead by plane with you neveral subject store or Mail Cude Centre first to determine availability.

We appreciate but in in my be inconvenient to it is at 10 order to do the time toward a long distance to our stores only in 10 or 10 order to 10 or 10 order to 1

CATALOGUE NUMBERS -

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on request.

p. s. Minimum mail order is \$10.00, unless otherwise advised.

GOODS MISSING IN TRANSIT By far the most common method for mail orders is by post. It is ideal for small orders (say below \$50) and for small packages. We have despathed once \$0.000 postal items in the least? years and the number of items genuinely lost would represent for less than

the number of items getting the second represent fair less that 0.001% of this total. So, despite what the media says Australia Post is NORMALLY very relablet The only time it is not reliable is when there are industrial disputes, less these days. It also pate a little slow at Christmas time but, at in all it hardly ever genuinely loses.

The second secon

If you do not wish to take this (admitted yearsh) rike, pleases peoply hours more when you order. Invariance will code you this of the order value and we are happy to arrange it no your behalf. This insurance shall code you the behalf will be abled if you wish us in insure on your order by phone you will be asked if you wish u to insure on your behalf. Insurance will cost also 100 your code in to 11 to 00 when you have not to insure on your THEREOF, in other words if your code is to 11 to 00 when you have not to 12 to 00 when you have not you continued with your code in to 11 to 00 when you have not to 12 to 00 when you have not you h

troud on not wish to insure a statement saying insuran If you do not wash to meete a sustement aligning insulation Declined," will appear on the order. If you post an order to us don't forget to consider insurance. We do not automatically insure unless you specify it. If you don't mention insurance you are NOT

#### DAMAGED GOODS The same basic principles apply to goods damaged in transit as

The same base principles apply a goods missing.
If you suspect that the parcet has suffered to the point where the goods inside are damaged - do not open the parcet. Contact the carrier or local Post Office and deal directly with them. If the we been inswed

#### PAYMENTS

It is very easy to arrange payment for goods at Jayon 1, Jayon accepts BANKCARD (Authoris and N.Z.) 2. VISA CARD (International) 3, MASTERCARD (International) 4, AMERICAN EXPRESS (International) Michigung order for the above cards is \$10.00.

MonterCord V/SA

SEE "ORDER BY PHONE" SEE "ORDER BY PHUNE"

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will \$1 the correct amount in and advise you will a testing. The horized it's quite sets, Simply make out the cheque to Jaycar Pty Ltd and CROSS IT with the words "NON NEGOTIABLE". If you are sEE worned you can write on the top of the cheque TOHEQUE NOT TO EXCEED XXXX DOLLARS", allowing a "CHEUUE NOT TO EXCEED XXXX DULLARS", allowing a margin over what you think the final sum will be. This sensible system saves us from issuing small credit notes or charging you for small amounts.

charging you for small amounts.
We have not had a complaint from any of the many customers who have used his system over the years.
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ORDERING BY TELEPHONE ORDERING BY TELEPHONE

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Bankcard, Viss, Mestercard or American Express card number and we will take care of the real! We expect the toll-free line to be very busy so please limit your calls on this line to ORDERS ONLY. If this telephone number is engaged or if you want to make a general call or order enqury use our famous mail order hot line 0.2 747 1898. You should always be able to get through on this number

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# MANUFACTURERS/AGENTS

GUARANTEES

1. For goods supplied to us in Australia we will honour the local suppliers guarantee. This is generally 90 days.

2. For sixyear direct import goods, we generally offer a 90 day guarantee as well. If you wi to provide further information.

3. Kit guarantee. If we were to add a guarantee to kits two things

would occur.

(i) The price of the kit would increase significantly.

(ii) The areage constructor would object as they would be heavily subsidising the stall notice who should not be atempting ambitious projects in the first place. (Remember satisfaction

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existing.
4. SBMCONDUCTOR GUARANTEE. Jayour only buys semiconductors from the region regulable manufactures among which are Motoral, Treass Instruments, Microal Semiconductors, McCa. Treass Instruments, Microal Semiconductors, McCa. Semicondu has no consultate the end-used of the composited the manufacturers generally will not entertain a warranty claim. But BECAUSE we only buy quality your chances of experiencing a faulty component are virtually zero.

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FREE SEMICONDUCTOR INSURANCE 12 MONTHS WARRANTY ON SEMISI 12 MONTHS WARRAN I Y ON SEMISI You may him a very good reason to believe that you have a lauty semiconductor which was purchased from us either as part of a lit or discrete from. After you have double tipigle checked hat your credit is O.K. contact us. We need to know the following: - Date of purchases is, shop or mail order

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 Your name and full address
 Full details of what testing procedures you have taken to
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	Crystals	68	IEC Cables/Con 8	84 F	Pest Repeller 1		Supertool 10			





Above: Artists impression of our new Head Office & warehouse due for completion in 1989

Somewhere in the Queensland outback! Our trusty 1965 AP-5 Valiants made it through the 1987 Bourke to Barrier Reef Bash unscathed! Once again the Charity event raised an enormous amount of money over \$800,000 for the childrens' charity, The Variety Club of Australia. We once again wish to thank our local electronics suppliers for helping us enter the vehicles.

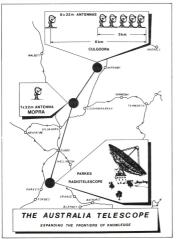
Unfortunately we narrowly lost the event but confidently expect to win this year.

#### Above Right

Australian Geographics "Team Marsupial" Solar Car on the road to Adelaide during the 1987 World Challenge. Jaycar was a sponsor of this entry. Lascar DPM's were used by "Team Marsupial" along with Jaycar/Metex multimeters etc., with great success.

Team Marsupial finished 4th and was the first car with the Australian made solar cells to finish. Cloudy skies didn't help.







Artist's Impression of the Compact Array of the Australia Telescope, Culgoora, NSW.



Correlator Chip 5mm square, contains over 50,000 transistors.













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